

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NBU 921-21A3AS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6587		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL mary.mondragon@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 0576			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Tribe			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1017 FNL 833 FEL	NENE	21	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	841 FNL 670 FEL	NENE	21	9.0 S	21.0 E	S
At Total Depth	841 FNL 670 FEL	NENE	21	9.0 S	21.0 E	S

21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 670		23. NUMBER OF ACRES IN DRILLING UNIT 1480	
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 350		26. PROPOSED DEPTH MD: 10201 TVD: 10190	
27. ELEVATION - GROUND LEVEL 4829		28. BOND NUMBER WYB000291		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496	

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	9.625	0 - 2630	36.0	J-55 LT&C	0.2	Class G	215	1.18	15.6
							Class G	380	1.18	15.6
Prod	7.875	4.5	0 - 9661	11.6	I-80 LT&C	11.6	Premium Lite High Strength	430	3.38	11.0
			9661 - 10201	11.6	HCP-110 LT&C	11.6	50/50 Poz	1400	1.31	14.3

ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 07/30/2009	EMAIL danielle.piernot@anadarko.com
API NUMBER ASSIGNED 43047506100000		
APPROVAL		



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-21A3AS
API Well Number: 43047506100000
Lease Number: UTU 0576
Surface Owner: INDIAN
Approval Date: 8/11/2009

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Cause No. 173-14 commingling the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

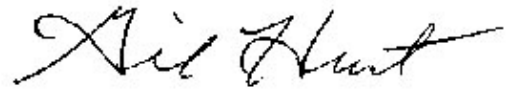
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "Gil Hunt", with a stylized, cursive script.

Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/12/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: August 23, 2010

By:

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 8/12/2010



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047506100000

API: 43047506100000

Well Name: NBU 921-21A3AS

Location: 1017 FNL 0833 FEL QTR NENE SEC 21 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 8/11/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Danielle Piernot

Date: 8/12/2010

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: August 23, 2010

By: 

RECEIVED August 12, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

Aug 31 2009

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010APPLICATION FOR PERMIT TO DRILL OR REENTER **BLM**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0576
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP Contact: DANIELLE E PIERNOT Email: Danielle.Piernot@anadarko.com		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	8. Lease Name and Well No. NBU 921-21A3AS
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENE 1017FNL 833FEL 40.02606 N Lat, 109.55028 W Lon At proposed prod. zone NENE 841FNL 670FEL 40.02654 N Lat, 109.54970 W Lon		9. API Well No. 43-047-50610
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 28 MILES SOUTHEAST OF OURAY, UTAH		10. Field and Pool, or Exploratory NATURAL BUTTES
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 670 FEET	16. No. of Acres in Lease 1480.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 21 T9S R21E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 370 FEET	19. Proposed Depth 10201 MD 10190 TVD	12. County or Parish UINTAH
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4829 GL	22. Approximate date work will start 08/17/2009	13. State UT
23. Estimated duration 60-90 DAYS		17. Spacing Unit dedicated to this well
20. BLM/BIA Bond No. on file WYB000291		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-6156	Date 07/30/2009
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date MAY 24 2011
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #72658 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by GAIL JENKINS on 08/03/2009 ()

UDOGM

RECEIVED

JUN 08 2011

DIV. OF OIL, GAS & MINING

NOS AND POSTED 08-10-2009

AFMSS# 09GXJ5643AE

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

NOTICE OF APPROVAL

09GXJ5643AE

NO NOS

CONDITIONS OF APPROVAL ATTACHED



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore LP
Well No: NBU 921-21A3AS
API No: 43-047-50610

Location: NENE, Sec 21, T9S R21E
Lease No: UTU-0576
Agreement: Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

SITE SPECIFIC CONDITIONS OF APPROVAL

- Paint old and new facilities "Shadow Gray."
- Move the existing pipeline off the damage area of the well pad.
- Construct diversion ditches around the well pad.
- In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix D), a raptor survey would take place during raptor nesting season (January 1 through September 30) and conduct its operations according to specifications in the guidelines.
- If project construction operation are not initiated before June 17, 2010. KMG should conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measurements for Uinta Basin Hookless cactus (See Appendix D) and conduct its operations according to its specifications.

BIA Standard Conditions of Approval:

- Soil erosion will be mitigated by reseeding all disturbed areas.
- The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
- An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
- The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
- A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
- Major low water crossings will be armored with pit run material to protect them from erosion.
- All personnel should refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.

- If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
- Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
- Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
- If project construction operations are scheduled to occur after December 31, 2009, KMG should conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002. If active raptor nest are identified during a new survey, KMG should conduct its operations according to the seasonal restrictions detailed in the Uinta basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (See Appendix D).
- USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix D).
- All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
- If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL

- A Gama Ray Log shall be run from TD to surface.

Variances Granted:

Air Drilling:

- Properly lubricated and maintained rotating head, variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for two truck/trailer mounted air compressors located within 40 feet from the well bore and 60' from the blooie line.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for kill fluid.
- Automatic igniter. Variance granted for igniter due to there being no productive formations while drilling with air.
- FIT test. Variance granted due to well known geology and problems that can occur with FIT test.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be

performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

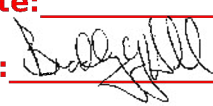
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/11/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.		
Approved by the Utah Division of Oil, Gas and Mining Date: 07/11/2011 By: 		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 7/11/2011		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047506100000

API: 43047506100000

Well Name: NBU 921-21A3AS

Location: 1017 FNL 0833 FEL QTR NENE SEC 21 TWP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 8/11/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Andy Lytle

Date: 7/11/2011

Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED Jul. 11, 2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000			
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
COUNTY: UINTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/19/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: 			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The Operator requests approval for changes in the drilling operations for this well. Changes include a FIT waiver, casing changes, deepening to the Blackhawk formation (resides in Mesaverde formation) and closed loop drilling options. Please see the attachment for details. Thank you.					
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 10/19/2011		DATE: 11/01/2011 By:			

NBU 921-21A PAD

Drilling Program
1 of 7**Kerr-McGee Oil & Gas Onshore. L.P.****NBU 921-21A3AS**

Surface:	1017 FNL / 833 FEL	NENE
BHL:	841 FNL / 670 FEL	NENE

Section 21 T9S R21E

Unitah County, Utah
Mineral Lease: UTU-0576

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1599	
Birds Nest	1954	Water
Mahogany	2291	Water
Wasatch	4981	Gas
Mesaverde	7955	Gas
MVU2	8912	Gas
MVL1	9419	Gas
Sego	10197	Gas
Castlegate	10274	Gas
MN5	10635	Gas
TVD	11235	
TD	11246	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. Evaluation Program:

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 11235' TVD, approximately equals
7,415 psi (0.66 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,995 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-

(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

RECEIVED Oct. 19, 2011

NBU 921-35H Pad

Drilling Program
6 of 7

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						LTC		DQX	
						BURST	COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,740	28.00	IJ-55	LTC	1.96	1.47	5.18	N/A
						10,690	8,650	279,000	367,174
PRODUCTION	4-1/2"	0 to 5,000	11.60	HCP-110	DQX	1.19	1.14		3.51
	4-1/2"	5,000 to 11,246'	11.60	HCP-110	LTC	1.19	1.14	4.81	

Surface Casing:

(Burst Assumptions: TD = 13.0 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi)

0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	2,240'	65/35 Poz + 6% Gel + 10 pps gilsonite	210	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,476'	Premium Lite II +0.25 pps	340	20%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	6,770'	50/50 Poz/G + 10% salt + 2% gel	1,600	35%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Nick Spence / Danny Showers / Chad Loesel

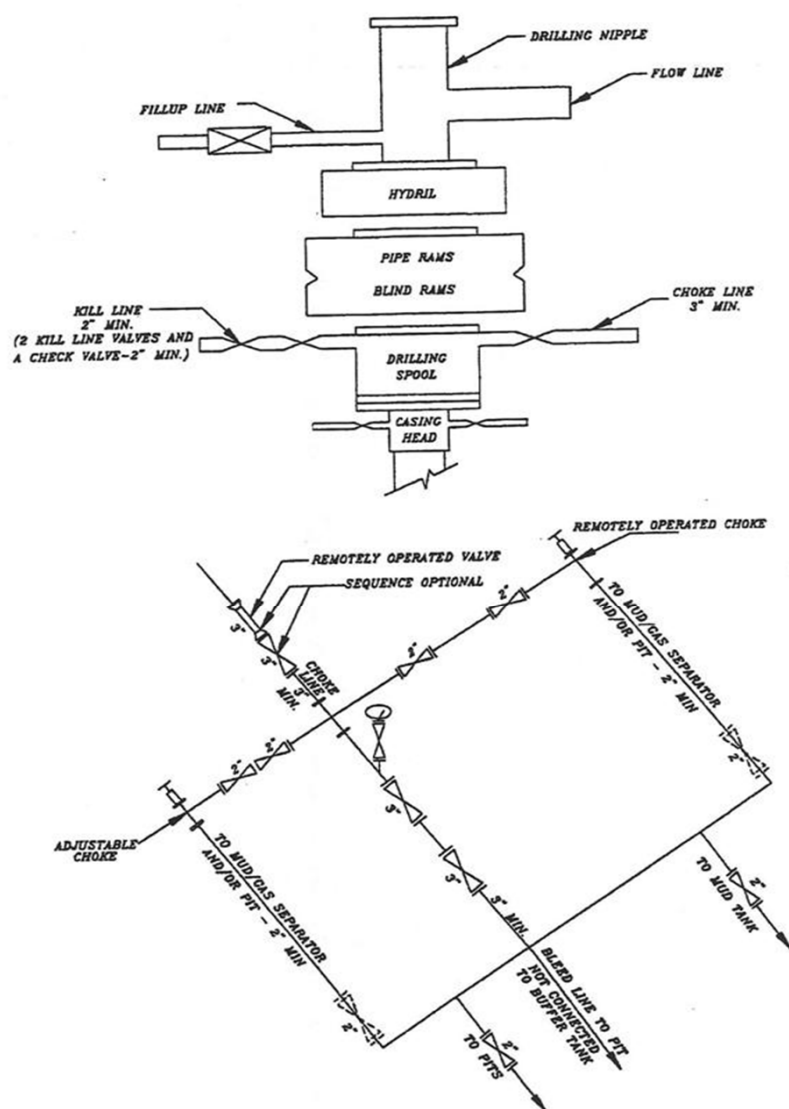
DATE:

DRILLING SUPERINTENDENT:

Kenny Gathings / Lovel Young

DATE:

NBU 921-21A PAD

Drilling Program
7 of 7**EXHIBIT A**
NBU 921-21A3AS**SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK**

Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/18/2011	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 11/18/2011 AT 0730 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/21/2011	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By SHEILA WOPSOCK Phone Number 435.781.7024
 Well Name/Number NBU 921-21A3AS
 Qtr/Qtr NE/NE Section 21 Township 9S Range 21E
 Lease Serial Number UTU-0576
 API Number 4304750610

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 11/17/2011 1400 HRS AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 12/14/2011 0800 HRS AM ☒ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

RECEIVED

NOV 16 2011

DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT
LOVEL YOUNG AT 435.781.7051 FOR MORE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750610	NBU 921-21A3AS		NENE	21	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	11/18/2011		11/30/11		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>BLKHK = MVRD = WSMVD</u> SPUD WELL ON 11/18/2011 AT 0730 HRS. <u>BHL = NENE</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750611	NBU 921-21A3DS		NENE	21	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	11/18/2011		11/30/11		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>BLKHK = MVRD = WSMVD</u> SPUD WELL ON 11/18/2011 AT 1200 HRS. <u>BHL = NENE</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

11/21/2011

Date

RECEIVED

NOV 21 2011

(5/2000)

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/11/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON JAN. 9, 2012. DRILLED SURFACE HOLE TO 2756'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 12, 2012
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304
SIGNATURE N/A		TITLE Regulatory Analyst
		DATE 1/12/2012

Carol Daniels - BOP TEST ON NBU 921-21A3AS

T09S R21E S-21 4304750610

From: "Anadarko - H&P 298" <hp298@gesmail.net>
To: <caroldaniels@utah.gov>
Date: 2/25/2012 8:34 AM
Subject: BOP TEST ON NBU 921-21A3AS

CAROL,

WILL BE SKIDDING TO THE 3RD WELL ON THIS PAD NBU 921-21A3AS, TONIGHT SAT 2/25/12 ,H&P 298, AND
PRESSURE TESTING IN THE AM HRS 2/26/12 2-4 AM THANKS

JIM MURRAY
H&P 298
435 828 0957

RECEIVED

FEB 25 2012

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		10. COUNTY: UINTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/6/2012	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2,756' TO 11,290' ON MARCH 3, 2012. RAN 4-1/2" 11.6# P-110 PRODUCING CASING . CEMENTED PRODUCTION CASING. RELEASED H&P 298 RIG ON MARCH 6, 2012 @ 16:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304
SIGNATURE N/A		TITLE Regularatory Analyst
DATE 3/8/2012		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 14, 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/11/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON MAY 11, 2012 AT 12:00 HOURS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 15, 2012		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/14/2012	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU0576

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No. UTU63047A		
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE Mail: cara.mahler@anadarko.com			8. Lease Name and Well No. NBU 921-21A3AS ✓		
3. Address 1099 18TH STREET, SUITE 1800 DENVER, CO 80202			9. API Well No. 43-047-50610		
3a. Phone No. (include area code) Ph: 720-929-6029			10. Field and Pool, or Exploratory NATURAL BUTTES		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENE 1017FNL 833FEL 40.026062 N Lat, 109.550279 W Lon At top prod interval reported below NENE 852FNL 645FEL At total depth NENE 957FNL 628FEL BHL by HSM			11. Sec., T., R., M., or Block and Survey or Area Sec 21 T9S R21E Mer SLB		
14. Date Spudded 11/18/2011			15. Date T.D. Reached 03/03/2012		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 05/11/2012			17. Elevations (DF, KB, RT, GL)* 4829 GL		
18. Total Depth: MD 11290 TVD 11287		19. Plug Back T.D.: MD 11265 TVD 11262		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) BHV-SD/DSN/ACTR-CBL/GR/COLLARS			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2734		660		0	
7.875	4.500 P-110	11.6	0	11309		2170		1590	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	10808							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	10743	11138	10743 TO 11138	0.360	72	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
10743 TO 11138	PUMP 7,897 BBLs SLICK H2O & 183,598 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/11/2012	05/12/2012	24	→	0.0	1938.0	960.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	1015	1651.0	→	0	1938	960		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

RECEIVED

JUL 03 2012

DIV. OF OIL, GAS & MINING

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #141955 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1723 2019 2350 5039 8237

32. Additional remarks (include plugging procedure):

The first 210' of the surface hole was drilled with a 12 ?? bit. The remainder of surface hole was drilled with an 11? bit. P-110 DQX csg was run from surface to 5124?; LTC csg was run from 5124? to 11,309?. Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #141955 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal

Name (please print) CARA MAHLERTitle AUTHORIZED REPRESENTATIVE

Signature _____ (Electronic Submission)

Date 06/29/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: PROPETRO 11/11, H&P 298/298

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/6/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/9/2012	11:00 - 14:00	3.00	MIRU	01	B	P		SKID RIG 10' TO NBU 921-21A3AS (WELL3 OF 4). INSTALL DIVERTOR HEAD AND BLUEY LINE. BUILD DITCH. SPOT IN RIG. SPOT IN CATWALK AND PIPE RACKS. RIG UP PIT PUMP. RIG UP PUMP. PRIME PUMP. INSPECT RIG. HELD PRE-SPUD SAFETY MEETING. SPUD 14:00
	14:00 - 15:30	1.50	DRLSUR	02	D	P		DRILL 12.25" HOLE 44'- 210'. (166', 83'/HR) RPM=45, WOB 5-15K. PSI ON/OFF 600/400. UP/DOWN/ ROT 20/20/20 K. DRAG 0 K. CIRC RESERVE W. 8.3# WATER. DRILL DOWN TO 210' W/ 6" COLLARS.
	15:30 - 17:30	2.00	DRLSUR	06	A	P		POOH, PU, 11" BIT AND DIRECTIONAL TOOLS, TIH T/ 210'
	17:30 - 0:00	6.50	DRLSUR	02	D	P		DRILL F/210 T/1090 (880' @ 135' PER HR) WOB 20K, PSI ON/OFF 1240/1040, RPM 45 UP/DWN/ROT 60/50/55
1/10/2012	0:00 - 12:00	12.00	DRLSUR	02	D	P		DRILL F/1090-2290' (1200' @ 100" PER HR) WOB 20K, PSI ON/OFF 1500/1300, RPM 45 UP/DWN/ROT 82/62/72
	12:00 - 19:30	7.50	DRLSUR	02	D	P		DRILL F/2290-2756' (466' @ 62' PER HR) WOB 20K, PSI ON/OFF 1880/1680, RPM 45 UP/DWN/ROT 92/67/80
	19:30 - 21:30	2.00	DRLSUR	05	D	P		TD @ 19:30 CIRC F/CSNG
	21:30 - 0:00	2.50	DRLSUR	06	D	P		LDDS
1/11/2012	0:00 - 1:30	1.50	DRLSUR	06	D	P		LD DIR TOOLS & BIT
	1:30 - 2:30	1.00	DRLSUR	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. AND MOVE CSG INTO POSITION TO P/U.
	2:30 - 6:00	3.50	DRLSUR	12	C	P		RUN 61 JTS 8 5/8, 28# CSNG. SHOE SET @ 2712", BAFFLE SET @ 2666.17"
	6:00 - 7:00	1.00	DRLSUR	12	B	P		HOLD SAFETY MEETING, RUN 200' OF 1". RIG DOWN RIG MOVE OFF WELL, REBUILD DITCH. RIG UP CEMENT TRUCK, 2" HARD LINES,. CEMENT HEAD, LOAD PLUG. LAND CSNG @ 06:00
	7:00 - 8:30	1.50	DRLSUR	12	E	P		PRESSURE TEST LINES TO 2000 PSI. PUMP 150 BBLs OF WATER AHEAD. PUMP 20 BBLs OF 8.3# GEL WATER AHEAD. PUMP (220 SX) 149.6 BBLs OF 11.0# 3.82 YD 23 GAL/SK PREMIUM CEMENT. PUMP 165 SX TAIL (33.8 BBLs), 15.6#, 1.15 YIELD. DROP PLUG ON FLY. DISPLACE WITH 166.4 BBLs OF H2O. FULL CIRC THROUGHOUT. FINAL LIFT 350 PSI AT 4 BBLs MIN. BUMP PLUG WITH 1000 PSI HELD FOR 5 MIN. FLOAT HELD. PUMP 150 SX (30.72 BBLs) OF SAME TAIL CEMENT WITH 2% CACL DOWN 1". SHUT DOWN AND CLEAN TRUCK. CEMENT TO SURFACE.. FELL BACK
	8:30 - 10:00	1.50	DRLSUR	13	A	P		WOC
	10:00 - 11:00	1.00	DRLSUR	12	E	P		PUMP 125 SKS (25.6BBLs) DOWN BACKSIDE. CMT TO SURFACE. STAYED RELEASE RIG 11:00

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: PROPETRO 11/11, H&P 298/298

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/6/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/26/2012	0:00 - 5:00	5.00	MIRU	01	C	P		SKID RIG 10', JUMP SKID REAMS, SKID 10', ALIGN OVER WELL
	5:00 - 8:30	3.50	PRPSPD	14	A	P		NIPPLE UP BOPE, FLOWLINE, ADD EXTENTIONS TO CHOKE LINE, MUD LINE
	8:30 - 13:00	4.50	PRPSPD	15	A	P		PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINES & KILL LINE VALVES, BOP WING VALVES, HCR VALVE + CHOKE LINE; INNER AND OUTER CHOKE VALVES & MANIFOLD TO 250 PSI LOW @ 5 MINUTES + 5000 PSI HIGH @ 10 MINUTES / TEST ANNULAR TO 250 PSI LOW @ 5 MINUTES + 2500 PSI HIGH @ 10 MINUTES / TEST SUPER CHOKE + SURFACE CASING TO 1500
	13:00 - 14:30	1.50	PRPSPD	15	A	P		TEST STRATA EQUIP 250 PSI LOW-3000 PSI HIGH
	14:30 - 15:00	0.50	PRPSPD	07	A	P		RIG SERVICE
	15:00 - 16:00	1.00	PRPSPD	07	C	P		CHANGE OUT SAVER SUB
	16:00 - 16:30	0.50	PRPSPD	14	B	P		INSTALL WEAR BUSHING
	16:30 - 19:00	2.50	PRPSPD	06	A	P		PICK UP MUD MTR, MAKE UP BIT, INSTALL DIRECTIONAL TOOLS, & SURFACE TEST, TIH TAG CEMENT @ 2,630'
	19:00 - 19:30	0.50	DRLPRO	07	B	P		LEVEL DERRICK, INSTALL ROT HEAD
	19:30 - 21:00	1.50	DRLPRO	02	F	P		DRILL FLOAT TRACK FROM 2,630 TO 2,734
								BAFFLE @ 2,688 SHOE @ 2,734 OPEN 2,788
	21:00 - 0:00	3.00	DRLPRO	02	D	P		SPUD 7-7/8 PROD HOLE, DRILL / SLIDE / SURVEY F/ 2,788 TO 3,250 = 472' @ FPH
								WOB 20,000-24,000
								TOP DRIVE RPM 40-65
2/27/2012								MUD MOTOR RPM 88
								PUMPS 120 SPM=550 GPM
								PUMP PRESSURE ON/OFF BTM 1,950/ 1,760
								TORQUE ON/OFF BTM 7,000/ 4,000
								PICK UP WT 120,000
								SLACK OFF WT 90,000
								ROT WT 102,000
								SLIDE 18' IN 15 MIN 3.8% OF FOOTAGE DRILLED, 8.3% OF HRS DRILLED
								MUD WT 8.4 VIS 27
	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL / SLIDE / SURVEY F/ 3,250' TO 3,950' = 116.6' @ FPH
								WOB 20,000-24,000
								TOP DRIVE RPM 40-65
								MUD MOTOR RPM 88
								PUMPS 120 SPM=550 GPM
								PUMP PRESSURE ON/OFF BTM 1,980/ 1,760
								TORQUE ON/OFF BTM 9,000/ 6,000
								PICK UP WT 135,000
								SLACK OFF WT 100,000
								ROT WT 114,000
								SLIDE 18' IN 15 MIN 2.5% OF FOOTAGE DRILLED, 16.4% OF HRS DRILLED
								MUD WT 8.4 VIS 27

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: PROPETRO 11/11, H&P 298/298

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/6/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 15:30	9.50	DRLPRO	02	B	P		DRILL / SLIDE / SURVEY F/ 3,950' TO 5,080' = 1130' @ 119' FPH WOB 20,000-24,000 TOP DRIVE RPM 40-65 MUD MOTOR RPM 88 PUMPS 124 SPM=558 GPM PUMP PRESSURE ON/OFF BTM 2,063/ 1,670 TORQUE ON/OFF BTM 8,000 / 6,000 PICK UP WT 148,000 SLACK OFF WT 111,,000 ROT WT 132,000 SLIDE 40' IN 25 MIN 3.7% OF FOOTAGE DRILLED, 4.3% OF HRS DRILLED MUD WT 8.4 VIS 27 TIGHT SPOT @ 4,870 LUBE RIG
	15:30 - 16:00	0.50	DRLPRO	07	A	P		
	16:00 - 0:00	8.00	DRLPRO	02	B	P		DRILL / SLIDE / SURVEY F/ 5,080 TO 6,100 = 1,020' @ 127.5' FPH WOB 20,000-24,000 TOP DRIVE RPM 40-65 MUD MOTOR RPM 88 PUMPS 12 SPM=550 GPM PUMP PRESSURE ON/OFF BTM 1,860/ 1,690 TORQUE ON/OFF BTM 11,000 / 9,000 PICK UP WT 170,000 SLACK OFF WT 115,,000 ROT WT 148,000 SLIDE 45' IN 50 MIN 4.39% OF FOOTAGE DRILLED, 10.41% OF HRS DRILLED MUD WT 8.4 VIS 27
2/28/2012	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILL / SLIDE / SURVEY F/ 5,100 TO 6,800= 700' @ 117' FPH WOB 20,000-24,000 TOP DRIVE RPM 40-65 MUD MOTOR RPM 88 PUMPS 120 SPM=550 GPM PUMP PRESSURE ON/OFF BTM 1,860/ 1,690 TORQUE ON/OFF BTM 11,000 / 9,000 PICK UP WT 170,000 SLACK OFF WT 115,000 ROT WT 148,000 SLIDE 45' IN 50 MIN 4.39% OF FOOTAGE DRILLED, 10.41% OF HRS DRILLED MUD WT 8.4 VIS 27

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: PROPETRO 11/11, H&P 298/298

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/6/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 13:30	7.50	DRLPRO	02	B	P		DRILL / SLIDE / SURVEY F/ 5,800 TO 7,442= 642' @ 85.6' FPH WOB 20,000-24,000 TOP DRIVE RPM 40-65 MUD MOTOR RPM 88 PUMPS 120 SPM=550 GPM PUMP PRESSURE ON/OFF BTM 2,005/ 1,750 TORQUE ON/OFF BTM 11,000 / 9,000 PICK UP WT 202,000 SLACK OFF WT 151,000 ROT WT 173,000 SLIDE 20' IN 30 MIN. 3% OF FOOTAGE DRILLED, 6.6% OF HRS DRILLED MUD WT 8.5 VIS 27 RIG SERVICE CHANGE ROTATING RUBBER
	13:30 - 14:00	0.50	DRLPRO	07	A	P		
	14:00 - 14:30	0.50	DRLPRO	14	B	P		
	14:30 - 0:00	9.50	DRLPRO	02	B	P		DRILL / SLIDE / SURVEY F/ 7,442 TO 8,035= 593' @ 62.4' FPH WOB 20,000-25,000 TOP DRIVE RPM 40-65 MUD MOTOR RPM 83 PUMPS 114 SPM=513 GPM PUMP PRESSURE ON/OFF BTM 2,000/ 1,850 TORQUE ON/OFF BTM 14,000 / 12,000 PICK UP WT 225,000 SLACK OFF WT 150,000 ROT WT 177,000 SLIDE 55' IN 90 MIN. 9.29% OF FOOTAGE DRILLED, 16.07% OF HRS DRILLED MUD WT 8.8 VIS 34
2/29/2012	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL / SLIDE / SURVEY F/ 8,035' TO 8,343' = 308' @ 51.3' FPH WOB 20,000-25,000 TOP DRIVE RPM 40-65 MUD MOTOR RPM 83 PUMPS 114 SPM=513 GPM PUMP PRESSURE ON/OFF BTM 2,000/ 1,850 TORQUE ON/OFF BTM 12,000 / 11,000 PICK UP WT 220,000 SLACK OFF WT 155,000 ROT WT 184,000 SLIDE 45' IN 100 MIN 17.44% OF FOOTAGE DRILLED, 27.77% OF HRS DRILLED MUD WT 8.8 VIS 34

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: PROPETRO 11/11, H&P 298/298

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/6/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 16:30	10.50	DRLPRO	02	D	P		DRILL / SLIDE / SURVEY F/ 8,343' TO 8,847' = 504' @ 49.4' FPH WOB 20,000-25,000 TOP DRIVE RPM 40-65 MUD MOTOR RPM 83 PUMPS 112 SPM = 504 GPM PUMP PRESSURE ON/OFF BTM 2,250/ 1,976 TORQUE ON/OFF BTM 13,000 / 12,000 PICK UP WT 225,000 SLACK OFF WT 163,000 ROT WT 193,000 120' IN 265 MIN 23.80% OF FOOTAGE DRILLED, 44% OF HRS DRILLED MUD WT 8.9 VIS 36 STRATA ONLINE @ 8,425' WITH A 15' FLARE FULL OPEN CHOKE 10 PSI ANNULUS SERVICE RIG @ 8,847'
	16:30 - 17:00	0.50	DRLPRO	07	A	P		
	17:00 - 18:00	1.00	DRLPRO	22	O	Z		BUILD MUD VOLUME AND REPLACE TOTCO FLOW SENSOR GASKET
	18:00 - 23:00	5.00	DRLPRO	02	D	P		DRILL / SLIDE / SURVEY F/ 8,847' TO 9,142' = 295' @ 59' FPH WOB 20,000-25,000 TOP DRIVE RPM 55-70 MUD MOTOR RPM 83 PUMPS 112 SPM = 504 GPM PUMP PRESSURE ON/OFF BTM 2,200/ 1,950 TORQUE ON/OFF BTM 14,000 / 12,000 PICK UP WT 245,000 SLACK OFF WT 165,000 ROT WT 197,000 STRATA ONLINE ' WITH A 15' FLARE /FULL OPEN CHOKE / 20 PSI ON ANNULAS NO SLIDES 0' IN 0 MIN 0% OF FOOTAGE DRILLED, 0% OF HRS DRILLED MUD WT 9.2 VIS 40
	23:00 - 0:00	1.00	DRLPRO	08	B	Z		WAITING ON ELECTRICIAN TO TROUBLE SHOOT TOP DRIVE BLOWER MOTOR
3/1/2012	0:00 - 2:30	2.50	DRLPRO	08	B	Z		TOP DRIVE BLOWER MOTOR PLUG PULLED APART, REPAIR WIRE

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: PROPETRO 11/11, H&P 298/298

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/6/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:30 - 6:00	3.50	DRLPRO	02	D	P		DRILL / SLIDE / SURVEY F/ 9,142' TO 9,323' = 181' @ 51.7' FPH WOB 20,000-25,000 TOP DRIVE RPM 40-55 MUD MOTOR RPM 83 PUMPS 112 SPM = 504 GPM PUMP PRESSURE ON/OFF BTM 2,450/ 2,270 TORQUE ON/OFF BTM 14,000 / 13,000 PICK UP WT 245,000 SLACK OFF WT 165,000 ROT WT 200,000 STRATA ONLINE WITH A 15' FLARE /FULL OPEN CHOKE / 90 PSI ON ANNULAS NO SLIDES MUD WT 9.2 VIS 35 35 BBL MUD LOSS
	6:00 - 14:00	8.00	DRLPRO	02	D	P		DRILL / SLIDE / SURVEY F/ 9,323' TO 9,709' = 386' @ 48.25' FPH WOB 20,000-25,000 TOP DRIVE RPM 45-55 MUD MOTOR RPM 75 PUMPS 112 SPM = 468 GPM PUMP PRESSURE ON/OFF BTM 2,211/ 1,909 TORQUE ON/OFF BTM 13,000 / 14,000 PICK UP WT 248,000 SLACK OFF WT 172,000 ROT WT 206,000 STRATA ONLINE WITH A 5' FLARE /FULL OPEN CHOKE / 90 PSI ON ANNULAS NO SLIDES MUD WT 9.2 VIS 39 40 BBL MUD LOSS
	14:00 - 14:30	0.50	DRLPRO	07	A	P		LUBE RIG @ 9,709'
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DRILL / SLIDE / SURVEY F/ 9,709' TO 10,120' = 411' @43.2' FPH WOB 20,000-27,000 TOP DRIVE RPM 45-70 MUD MOTOR RPM 81 PUMPS 112 SPM = 504 GPM PUMP PRESSURE ON/OFF BTM 2,500/ 2,200 TORQUE ON/OFF BTM 16,000 / 15,000 PICK UP WT 250,000 SLACK OFF WT 175,000 ROT WT 214,000 STRATA ONLINE WITH A 15'-30' FLARE /FULL OPEN CHOKE / 125 PSI ON ANNULAS NO SLIDES MUD WT 9.0 VIS 38 50 BBL MUD LOSS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: PROPETRO 11/11, H&P 298/298

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/6/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/2/2012	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL / SURVEY F/ 10,120' TO 10,345' = 225' @ 37.5' FPH WOB 20,000-27,000 TOP DRIVE RPM 45-55 MUD MOTOR RPM 72 PUMPS 100 SPM = 450 GPM PUMP PRESSURE ON/OFF BTM 2,000/ 1,850 TORQUE ON/OFF BTM 15,000 / 14,000 PICK UP WT 260,000 SLACK OFF WT 180,000 ROT WT 214,000 STRATA ONLINE WITH A 15'-25' FLARE FULL OPEN CHOKE / 140 PSI ON ANNULAS NO SLIDES MUD WT 9.0 VIS 38 NO MUD LOSS
	6:00 - 15:30	9.50	DRLPRO	02	D	P		DRILL / SURVEY F/ 10,345' TO 10,530' = 184' @ 19.4' FPH WOB 24,000-30,000 TOP DRIVE RPM 40-55 MUD MOTOR RPM 72 PUMPS 100 SPM = 450 GPM PUMP PRESSURE ON/OFF BTM 2,077/ 1,902 TORQUE ON/OFF BTM 13,000 / 15,000 PICK UP WT 273,000 SLACK OFF WT 179,000 ROT WT 220,000 STRATA ONLINE WITH A 15'-25' FLARE FULL OPEN CHOKE / 140 PSI ON ANNULAS NO SLIDES MUD WT 9.0 VIS 38 NO MUD LOSS
	15:30 - 17:30	2.00	DRLPRO	22	N	X		SHUT WELL IN, INITIAL 800 PSI ON ANNULUS THEN DOWN TO 300 PSI, NO PSI ON DRILL PIPE, CIRCULATE OUT GAS USING RIG EQUIPMENT, STRATA OFFLINE,
	17:30 - 18:00	0.50	DRLPRO	02	D	P		DRILL / SURVEY F/ 10,530' TO 10,545' = 15' @ 35' FPH WOB 24,000-30,000 TOP DRIVE RPM 35-45 MUD MOTOR RPM 72 PUMPS 100 SPM = 450 GPM PUMP PRESSURE ON/OFF BTM 2,246/ 2,068 TORQUE ON/OFF BTM 13,000 / 15,000 PICK UP WT 273,000 SLACK OFF WT 179,000 ROT WT 220,000 STRATA ONLINE WITH A 10' FLARE FULL OPEN CHOKE / 90 PSI ON ANNULAS NO SLIDES MUD WT 10.1 VIS 40 NO MUD LOSS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: PROPETRO 11/11, H&P 298/298

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/6/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL / SURVEY F/ 10,530' TO 10,682' = 152' @ 25.3' FPH WOB 24,000-30,000 TOP DRIVE RPM 35-45 MUD MOTOR RPM 72 PUMPS 100 SPM = 450 GPM PUMP PRESSURE ON/OFF BTM 2,350/ 2,200 TORQUE ON/OFF BTM 16,000 / 15,000 PICK UP WT 260,000 SLACK OFF WT 180,000 ROT WT 218,000 STRATA ONLINE WITH A 10' FLARE FULL OPEN CHOKE / 90 PSI ON ANNULAS NO SLIDES MUD WT 10.1 VIS 40 NO MUD LOSS
3/3/2012	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL / SURVEY F/ 10,682' TO 10,851' =169' @ 28.16 FPH WOB 24,000-30,000 TOP DRIVE RPM 35-45 MUD MOTOR RPM 72 PUMPS 100 SPM = 450 GPM PUMP PRESSURE ON/OFF BTM 2,350/ 2,200 TORQUE ON/OFF BTM 16,000 / 15,000 PICK UP WT 260,000 SLACK OFF WT 180,000 ROT WT 218,000 STRATA ONLINE WITH A 10' FLARE FULL OPEN CHOKE / 120 PSI ON ANNULAS NO SLIDES MUD WT 10.5 VIS 40 NO MUD LOSS
	6:00 - 16:30	10.50	DRLPRO	02	D	P		DRILL / SURVEY F/ 10,851' TO 11,220' =369' @ 35.14 FPH WOB 24,000-30,000 TOP DRIVE RPM 35-45 MUD MOTOR RPM 68 PUMPS 95 SPM = 427 GPM PUMP PRESSURE ON/OFF BTM 2400/2050 TORQUE ON/OFF BTM 17,000 / 15,000 PICK UP WT 268,000 SLACK OFF WT 189,000 ROT WT 225,000 STRATA ONLINE WITH A 10' TO 15'FLARE FULL OPEN CHOKE / 120 PSI ON ANNULAS NO SLIDES MUD WT 11.2 VIS 40 25 BBL MUD LOSS
	16:30 - 17:00	0.50	DRLPRO	07	A	P		SERVICE RIG @ 11,220'

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: PROPETRO 11/11, H&P 298/298

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/6/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/4/2012	17:00 - 19:00	2.00	DRLPRO	02	D	P		DRILL FROM 11,220' TO 11,290' TD =70' @ 35 FPH WOB 24,000-30,000 TOP DRIVE RPM 35-45 MUD MOTOR RPM 68 PUMPS 95 SPM = 427 GPM PUMP PRESSURE ON/OFF BTM 2400/2050 TORQUE ON/OFF BTM 17,000 / 15,000 PICK UP WT 268,000 SLACK OFF WT 190,000 ROT WT 230,000 STRATA OFF LINE MUD WT 11.5 VIS 40 NO MUD LOSS
	19:00 - 20:00	1.00	DRLPRO	05	C	P		CIRC BOTTOMS UP @ 11,290' TD
	20:00 - 0:00	4.00	DRLPRO	06	E	P		WIPER TRIP / TOOH FROM 11,290' TO 5,000' W/ NO PROBLEMS
	0:00 - 1:30	1.50	DRLPRO	06	E	P		TOOH FROM 5,000' TO SHOE @ 2,735' WITH NO PROBLEMS / FLOW CHECK
	1:30 - 2:00	0.50	DRLPRO	14	B	P		CHANGE OUT STRATA ROTATING HEAD ELEMENT
	2:00 - 2:00	0.00	DRLPRO					
	2:00 - 6:00	4.00	DRLPRO	06	E	P		
	6:00 - 9:30	3.50	DRLPRO	05	C	P		TIH F/ 2,735' TO 11,290' WASH LAST 4 STANDS WITH NO PROBLEMS/ NO FILL ON BOTTOM
	9:30 - 16:00	6.50	DRLPRO	06	A	P		CIRULATE & COND MUD @ 11,290' / PUMP AND SPOT 100 BBL 12.5 PPG PILL / 10 TO 20' FLARE ON BOTTOMS UP
	16:00 - 16:30	0.50	DRLPRO	07	A	P		TOOH FOR LOGS WITH NO PROBLEMS / FLOW CHECK @ SHOE
3/5/2012	16:30 - 22:00	5.50	DRLPRO	11	D	P		SERVICE RIG
								PJSM / RU & RUN TRIPPLE COMBO LOGS WITH HALLIBURTON TO 10,197' LOGS STOOD UP/ UNABLE TO WORK PAST BRIDGE / LOG UP WITH TRIPPLE COMBO FROM 10,187' TO CASING SHOE @ 2,732'
	22:00 - 0:00	2.00	DRLPRO	06	F	X		MAKE UP MILL TOOTH BIT & TIH TO 4,000' FILL EACH 2,000'
	0:00 - 2:30	2.50	DRLPRO	06	F	X		CONTINUE TRIPPING IN HOLE FROM 5,000' TO 10,570' W/ NO PROBLEMS
	2:30 - 5:00	2.50	DRLPRO	03	E	X		WASH & REAM FROM 10,570' TO 11,290' UNABLE TO RUN IN HOLE HAVE TO WASH & REAM TO BOTTOM
	5:00 - 6:30	1.50	DRLPRO	05	B	X		CIRULATE & CONDITION MUD RAISE MUD WEIGHT FROM 11.9 PPG TO 12.2 PPG / 5' FLARE ON BOTTOM'S UP / PUMP & SPOT 50 BBL 13.0 PPG PILL
	6:30 - 12:00	5.50	DRLPRO	06	A	X		TOOH FROM 11,290' TO BIT W/ NO PROBLEMS
	12:00 - 14:00	2.00	DRLPRO	11	D	X		SAFETY MEETING / RIG UP HALLIBURTON & RUN TRIPPLE COMBO RUN IN HOLE WITH LOG # 2 TO 11,296' LOGGERS DEPTH / DRILLERS DEPTH 11,290' W/ NO PROBLEMS
	14:00 - 15:00	1.00	DRLPRO	11	D	P		LOG UP WITH TRIPPLE COMBO FROM 11,296' TO LOG # 1 TIE IN POINT @ 11,187'
	15:00 - 16:00	1.00	DRLPRO	11	D	P		PULL OUT OF HOLE WITH WIRE LINE LOGS AND RIG DOWN SAME
	16:00 - 16:30	0.50	DRLPRO	14	B	P		PULL WEAR BUSHING

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: PROPETRO 11/11, H&P 298/298

Event: DRILLING

Start Date: 11/10/2011

End Date: 3/6/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/6/2012	16:30 - 18:00	1.50	DRLPRO	12	A	P		PRE JOB SAFETY MEETING / RIG UP KIMZEY CASING EQUIPMENT
	18:00 - 0:00	6.00	DRLPRO	12	C	P		RUN 4 1/2" PRODUCTION CASING TO 5,820' W/ NO PROBLEMS
	0:00 - 6:00	6.00	DRLPRO	12	C	P		CONTINUE TO RUN 4 1/2" PRODUCTION CASING FROM 5,820' TO 11,282' FLOAT SHOE @ 11,282' / FLOAT COLLAR @ 11,237'
								BLACK HAWK MARKER @ 10,683' / MVERDE MARKER @ 7,953' / X-O @ 5,094' TOTAL JTS RAN 263 / 147 JTS OF P-110 LTC & 116 JTS OF P-110 DQX
	6:00 - 8:00	2.00	DRLPRO	05	A	P		BREAK AND ESTABLISH CIRCULATION / MEANWHILE RD CASING CREW / HOLD SAFETY MEETING WITH BJ CEMENTERS
	8:00 - 9:00	1.00	DRLPRO	05	A	P		CONTINUE TO CIRCULATE MEANWHILE PREPARE 40 BBL 12.2 PPG SEALBOND SPACER
	9:00 - 13:00	4.00	DRLPRO	12	E	P		INSTALL BJ CMT HEAD , TEST PUMP & LINES TO 5,000 PSI , DROP BOTTOM PLUG PUMP 5 BBLs FW 40 BBLs SEAL BOND SPACER @12.2PPG PUMP 700 SKS LEAD CEMENT @ 13.0 PPG,221 BBL SLURRY (PREM LITE II + .025 pps CELLO FLAKE + 10 pps KOL SEAL + .05 lb/sx STATIC FREE + 6% bwoc BENTONITE + .4% bwoc SODIUM META SILICATE + .3 % R-3 + 84.8% FRESH WATER / (8.85 gal/sx, 1.78 yield) + 1,470 SX TAIL @ 14.3 ppg 342 BBL SLURRY (CLS G 50/50 POZ + 10% SALT + .05lbs/sx STATIC FREE + .2% R3 + .002 GPS FP-6L + 2% BENTONITE + 58.7% FW / (5.91 gal/sx, 1.31 yield) / DROP TOP PLUG & DISPLACE W/ 175 BBLs H2O + ADDITIVES / PLUG DOWN @ 11:45 HOURS / FLOATS HELD W/ 2.5 BBLs H2O RETURNED TO INVENTORY/ GOOD CIRC THROUGH OUT 16 BBLs LEAD CMT TO SURFACE / LIFT PRESSURE @3,177 PSI / BUMP PRESSURE TO 3,754 PSI / TOP OF TAIL CEMENT CALCULATED @ 4,500' / RIG DOWN CMT EQUIPMENT
	13:00 - 14:30	1.50	DRLPRO	14	A	P		FLUSH OUT BOP AND EQUIPMENT / RAISE BOP
	14:30 - 15:30	1.00	DRLPRO	14	B	P		SET SLIPS WITH 105 K / CUT OFF CASING AND LAY DOWN SAME
	15:30 - 16:00	0.50	DRLPRO	14	A	P		NIPPLE DOWN BOP & RELEASE RIG @ 16:00 HRS

3/6/12

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-21A3AS YELLOW	Wellbore No.	OH
Well Name	NBU 921-21A3AS	Wellbore Name	NBU 921-21A3AS
Report No.	1	Report Date	5/1/2012
Project	UTAH-UINTAH	Site	NBU 921-21A PAD
Rig Name/No.		Event	COMPLETION
Start Date	5/1/2012	End Date	5/11/2012
Spud Date	1/9/2012	Active Datum	RKB @4,855.00usft (above Mean Sea Level)
UWI	NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0		

1.3 General

Contractor	CASED HOLE SOLUTIONS	Job Method	PERFORATE	Supervisor	DAVE DANIELS
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type	KCL WATER	Fluid Density		Gross Interval	10,743.0 (usft)-11,138.0 (u	Start Date/Time	5/1/2012 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	9	End Date/Time	5/1/2012 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	72	Net Perforation Interval	20.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.60 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

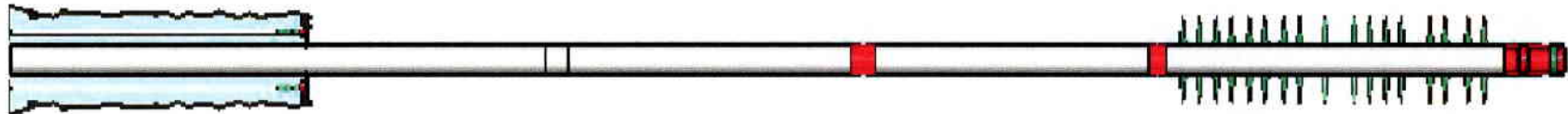
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
5/1/2012 12:00AM	MESAVERDE/			10,743.0	10,744.0	4.00		0.360	EXP/	3.375	90.00			23.00 PRODUCTION	
														N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
5/1/2012 12:00AM	MESAVERDE/			10,761.0	10,764.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/1/2012 12:00AM	MESAVERDE/			10,786.0	10,788.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/1/2012 12:00AM	MESAVERDE/			10,824.0	10,826.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/1/2012 12:00AM	MESAVERDE/			10,854.0	10,855.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/1/2012 12:00AM	MESAVERDE/			10,916.0	10,919.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/1/2012 12:00AM	MESAVERDE/			10,928.0	10,930.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/1/2012 12:00AM	MESAVERDE/			11,060.0	11,062.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/1/2012 12:00AM	MESAVERDE/			11,134.0	11,138.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 5/1/2012

End Date: 5/11/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/9/2012	-							
1/10/2012	-							
1/11/2012	-							
4/24/2012	11:00 - 12:30	1.50	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 6 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 25 PSI. 1ST PSI TEST T/ 9000 PSI. HELD FOR 30 MIN LOST 119 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWFW
4/27/2012	7:00 - 11:00	4.00		37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFW
4/30/2012	6:00 - 17:00	11.00	FRAC	36	E	P		6AM [DAY 3] MIRU SUPERIOR & CHS. HLD SUPERIOR JSA. P.T. SURFACE LINES TO 9446#. LOST 368# IN 15 MINUTES. POP OFFS SET & KICK OUTS IN PUMPS. [STG#1] PERF & FRAC AS PER DESIGN. [STG#2] PERF & FRAC AS PER DESIGN. [STG#3] PERF BY DESIGN.
5/1/2012	7:00 -		FRAC	36	E	P		SDFN 7AM [DAY 4] HLD SUPERIOR JSA. [STG#3] FRAC AS PER DESIGN. TOTAL 30/50 SAND PUMPED IN YELLOW WELL [921-21A3AS]=183,598# AND TOTAL FLUID PUMPED IN 921-21A3AS=7897 BBLS [KILL PLUG] SET KILL PLUG @ 10,700'. RDMO SUPERIOR & CHS. GRAND TOTAL 30/50 TLC SAND FOR ALL 4 WELLS ON PAD=736,439#, TOTAL FLUID=31,275 BBLS. MOVE OVER FROM 921-21A2DS. RUSU. ND WH. NU BOP. RU FLOOR AND TBG EQUIP. MU 3-7/8" BIT, POBS, 1.87" XN. RIH AS MEAS AND PU 2-3/8" P-110 TBG. HAVE 314-JTS IN. EOT AT 9959'. FILL TBG AND PRES TEST CSG TO 4000#. GOOD. PRES TEST SURFACE CSG TO 900#. LOST 200# IN 10 MIN. BLEED OFF. SWIFN. JSA- PU TBG. PWR SWIVEL. LAND HANGER.
5/10/2012	11:30 - 12:30	1.00	COMP	30	A	P		
	12:30 - 18:30	6.00	COMP	31	I	P		
5/11/2012	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud Date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 5/1/2012

End Date: 5/11/2012

Active Datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:00	7.75	COMP	44	C	P		<p>CONT RIH W/ BIT AS PU TBG. TAG AT ' W/ -JTS IN. RU DRLG EQUIP. EST CIRC AND D/O PLUGS.</p> <p>#1- C/O 8' SAND TO CBP AT 10,700'. D/O IN 4 MIN. 1000# INC. 0-1500# FCP. RIH.</p> <p>#2- C/O 35' SAND TO CBP AT 10,808. D/O IN 4 MIN. 600# INC. 500-900# FCP. RIH.</p> <p>#3- C/O 30' SAND TO CBP AT 10,930'. D/O IN 3 MIN. 500# INC. 800-1000# FCP. RIH.</p> <p>PBTD AT 11,237'. BTM PERF AT 11,138'. C/O 5' TO 11,237' W/ 354-JTS IN (99' RATHOLE). CIRC CLEAN.</p> <p>RD PWR SWMVEL. POOH AS LD 15-JTS TBG. PU 4" 10K HANGER. LUB IN AND LAND 340-JTS 2-3/8" P-110 TBG W/ EOT AT 10,807.91'. RD FLOOR. ND BOP. NU WH. HOOK UP FLOW LINES. POBS AT 1800#. PRES TEST LINES TO 4000#. GOOD. SITP 950#. SICP 3350#. TURN OVER TO FBC AND SALES. RDSU. RACK OUT EQUIP. MOVE TO 921-33F SWD. RUSU.</p> <p>TBG DETAIL KB 26.00 4" 10K HANGER .83 340-JTS 2-3/8" P-110 10,778.88 1.87" XN POBS 2.20 EOT 10,807.91</p> <p>31-JTS TRANSFERED FROM 21A2DS. 374-JTS DELIVERED FROM CTAP. 65-JTS TRANSFERED TO 21A3DS.</p> <p>TLTR 7897, TLR 700, LTR 7197. WELL TURNED TO SALES @ 1200 HR ON 5/11/2012- 3100 MCFD, 1920 BWPD, FCP 2600#, FTP 2950#, 20/64".</p> <p>WELL IP'D ON 5/12/12 - 1938 MCFD, 0 BOPD, 960 BWPD, CP 1651#, FTP 1015#, CK 20/64, LP 63#, 24 HRS</p>
	12:00 - 12:30	0.50	COMP	50				
5/12/2012	7:00 -			50				

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-21A3AS YELLOW	Wellbore No.	OH
Well Name	NBU 921-21A3AS	Common Name	NBU 921-21A3AS
Project	UTAH-UINTAH	Site	NBU 921-21A PAD
Vertical Section	42.80 (°)	North Reference	True
Azimuth		Origin E/W	
Origin N/S		UWI	NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/ 0/0
Spud Date	1/9/2012		
Active Datum	RKB @4,855.00usft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	WEATHERFORD
Started	1/9/2012	Ended	
Tool Name	MWD	Engineer	Anadarko Employee

2.1.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
22.00	0.00	0.00	22.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	TFace (°)
1/9/2012	Tie On	22.00	0.00	0.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/9/2012	NORMAL	194.00	0.26	233.99	194.00	-0.23	-0.32	-0.38	0.15	0.15	0.00	233.99
	NORMAL	280.00	1.30	50.16	279.99	0.28	0.28	0.39	1.81	1.21	204.85	176.81
	NORMAL	362.00	2.50	46.64	361.95	2.10	2.29	3.10	1.47	1.46	-4.29	-7.32
	NORMAL	452.00	3.31	25.33	451.83	5.80	4.83	7.54	1.49	0.90	-23.68	-64.09
	NORMAL	542.00	5.06	35.96	541.59	11.36	8.27	13.96	2.12	1.94	11.81	29.27
	NORMAL	632.00	6.88	38.46	631.10	18.80	13.96	23.27	2.04	2.02	2.78	9.38
	NORMAL	722.00	8.83	34.71	720.25	28.70	21.24	35.49	2.24	2.17	-4.17	-16.59
	NORMAL	812.00	10.25	32.33	809.00	41.14	29.46	50.20	1.64	1.58	-2.64	-16.70
	NORMAL	902.00	11.69	30.46	897.36	55.77	38.36	66.98	1.65	1.60	-2.08	-14.80
	NORMAL	992.00	12.25	29.71	985.40	71.92	47.72	85.19	0.65	0.62	-0.83	-15.89
	NORMAL	1,082.00	13.00	28.83	1,073.22	89.08	57.33	104.32	0.86	0.83	-0.98	-14.81
1/10/2012	NORMAL	1,172.00	12.75	33.33	1,160.96	106.25	67.67	123.94	1.15	-0.28	5.00	106.19
	NORMAL	1,262.00	12.94	33.08	1,248.71	122.99	78.63	143.66	0.22	0.21	-0.28	-16.43
	NORMAL	1,352.00	12.63	29.58	1,336.48	139.99	88.98	163.18	0.93	-0.34	-3.89	-113.51
	NORMAL	1,442.00	11.44	30.96	1,424.50	156.20	98.43	181.49	1.36	-1.32	1.53	167.08
	NORMAL	1,532.00	10.88	29.58	1,512.80	171.24	107.22	198.49	0.69	-0.62	-1.53	-155.18
	NORMAL	1,622.00	11.44	28.71	1,601.10	186.46	115.70	215.42	0.65	0.62	-0.97	-17.16

2.1.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
1/10/2012	NORMAL	1,712.00	10.06	26.96	1,689.52	201.29	123.55	231.64	1.58	-1.53	-1.94	-167.55
	NORMAL	1,802.00	9.56	25.58	1,778.20	215.04	130.34	246.34	0.61	-0.56	-1.53	-155.49
	NORMAL	1,892.00	9.50	25.08	1,866.96	228.51	136.72	260.55	0.11	-0.07	-0.56	-126.18
	NORMAL	1,982.00	8.69	23.71	1,955.83	241.46	142.60	274.05	0.93	-0.90	-1.52	-165.71
	NORMAL	2,072.00	7.25	21.83	2,044.95	252.96	147.44	285.78	1.63	-1.60	-2.09	-170.67
	NORMAL	2,162.00	7.00	21.71	2,134.26	263.33	151.58	296.20	0.28	-0.28	-0.13	-176.65
	NORMAL	2,252.00	4.56	17.33	2,223.79	271.84	154.68	304.55	2.75	-2.71	-4.87	-171.93
	NORMAL	2,342.00	2.44	7.46	2,313.62	277.15	155.99	309.34	2.44	-2.36	-10.97	-169.02
	NORMAL	2,432.00	1.69	346.71	2,403.56	280.34	155.94	311.65	1.16	-0.83	-23.06	-145.14
	NORMAL	2,522.00	0.44	292.46	2,493.55	281.77	155.31	312.27	1.64	-1.39	-60.28	-166.01
	NORMAL	2,612.00	0.19	260.46	2,583.55	281.87	154.85	312.03	0.33	-0.28	-35.56	-160.15
	NORMAL	2,702.00	0.13	143.21	2,673.55	281.77	154.76	311.89	0.31	-0.07	-130.28	-155.15
	NORMAL	2,718.00	0.16	146.59	2,689.55	281.74	154.78	311.88	0.19	0.19	21.13	17.61

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	WEATHERFORD
Started	2/26/2012	Ended	
Tool Name	MWD	Engineer	Anadarko Employee

2.2.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
2,718.01	0.16	146.59	2,718.01	281.16	154.39

2.2.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
2/26/2012	Tie On	2,718.01	0.16	146.59	2,718.01	281.16	154.39	311.19	0.00	0.00	0.00	0.00
2/26/2012	NORMAL	2,753.01	0.35	175.56	2,753.01	281.01	154.43	311.11	0.64	0.54	82.77	49.22
	NORMAL	2,847.00	0.31	73.21	2,847.00	280.80	154.69	311.13	0.55	-0.04	-108.89	-143.97
	NORMAL	2,941.00	2.50	89.81	2,940.96	280.88	156.98	312.75	2.35	2.33	17.66	18.90
	NORMAL	3,036.00	0.44	110.44	3,035.93	280.76	159.40	314.30	2.20	-2.17	21.72	175.75
	NORMAL	3,130.00	0.69	128.94	3,129.92	280.28	160.18	314.48	0.33	0.27	19.68	45.61
	NORMAL	3,225.00	0.88	132.94	3,224.92	279.42	161.16	314.52	0.21	0.20	4.21	18.10
	NORMAL	3,319.00	1.13	142.19	3,318.90	278.20	162.25	314.36	0.32	0.27	9.84	37.66
	NORMAL	3,414.00	0.44	218.44	3,413.89	277.17	162.60	313.85	1.17	-0.73	80.26	157.37
	NORMAL	3,508.00	0.69	226.19	3,507.89	276.50	161.97	312.92	0.28	0.27	8.24	20.90
	NORMAL	3,603.00	0.69	193.94	3,602.88	275.55	161.42	311.85	0.40	0.00	-33.95	-106.12
	NORMAL	3,697.00	0.75	180.44	3,696.87	274.38	161.28	310.90	0.19	0.06	-14.36	-77.35
2/27/2012	NORMAL	3,792.00	1.00	171.44	3,791.86	272.94	161.39	309.92	0.30	0.26	-9.47	-33.35
	NORMAL	3,886.00	1.19	165.81	3,885.85	271.18	161.76	308.88	0.23	0.20	-5.99	-32.36
	NORMAL	3,980.00	0.69	262.56	3,979.84	270.16	161.43	307.91	1.54	-0.53	102.93	151.67
	NORMAL	4,075.00	0.56	254.94	4,074.83	269.97	160.42	307.08	0.16	-0.14	-8.02	-151.18
	NORMAL	4,169.00	0.69	220.44	4,168.83	269.42	159.61	306.12	0.42	0.14	-36.70	-88.73
	NORMAL	4,264.00	1.00	201.06	4,263.82	268.21	158.94	304.78	0.44	0.33	-20.40	-52.64
	NORMAL	4,358.00	1.31	193.81	4,357.80	266.40	158.39	303.08	0.36	0.33	-7.71	-28.89
	NORMAL	4,453.00	0.69	256.44	4,452.78	265.21	157.57	301.65	1.23	-0.65	65.93	148.31
	NORMAL	4,547.00	0.38	232.19	4,546.78	264.89	156.78	300.88	0.40	-0.33	-25.80	-155.57
	NORMAL	4,642.00	0.63	198.19	4,641.78	264.20	156.36	300.09	0.40	0.26	-35.79	-68.00
	NORMAL	4,736.00	0.88	177.94	4,735.77	262.99	156.23	299.11	0.39	0.27	-21.54	-57.29
	NORMAL	4,831.00	1.19	175.44	4,830.75	261.27	156.33	297.92	0.33	0.33	-2.63	-9.54

2.2.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
2/27/2012	NORMAL	4,925.00	1.50	169.06	4,924.73	259.09	156.64	296.53	0.37	0.33	-6.79	-29.00
	NORMAL	5,020.00	0.81	217.06	5,019.71	257.34	156.48	295.13	1.19	-0.73	50.53	147.86
	NORMAL	5,114.00	0.44	263.56	5,113.70	256.77	155.72	294.20	0.64	-0.39	49.47	147.81
	NORMAL	5,209.00	0.56	297.44	5,208.70	256.94	154.94	293.80	0.33	0.13	35.66	85.44
	NORMAL	5,303.00	0.50	259.31	5,302.70	257.07	154.13	293.35	0.37	-0.06	-40.56	-118.37
	NORMAL	5,398.00	0.50	204.06	5,397.69	256.62	153.55	292.62	0.49	0.00	-58.16	-117.62
	NORMAL	5,492.00	0.56	138.69	5,491.69	255.90	153.69	292.18	0.61	0.06	-69.54	-117.64
	NORMAL	5,587.00	1.19	304.31	5,586.69	256.11	153.18	291.99	1.83	0.66	174.34	170.21
	NORMAL	5,681.00	1.31	296.69	5,680.66	257.14	151.42	291.55	0.22	0.13	-8.11	-58.02
	NORMAL	5,776.00	0.94	292.56	5,775.64	257.93	149.73	290.98	0.40	-0.39	-4.35	-169.70
	NORMAL	5,870.00	0.75	293.56	5,869.63	258.47	148.45	290.51	0.20	-0.20	1.06	176.06
2/28/2012	NORMAL	5,964.00	0.75	281.56	5,963.63	258.84	147.28	289.99	0.17	0.00	-12.77	-96.00
	NORMAL	6,059.00	0.50	280.44	6,058.62	259.04	146.27	289.44	0.26	-0.26	-1.18	-177.76
	NORMAL	6,153.00	0.63	283.06	6,152.62	259.23	145.36	288.97	0.14	0.14	2.79	12.55
	NORMAL	6,248.00	0.63	276.94	6,247.61	259.41	144.33	288.40	0.07	0.00	-6.44	-93.06
	NORMAL	6,342.00	0.56	261.69	6,341.61	259.40	143.37	287.74	0.18	-0.07	-16.22	-121.35
	NORMAL	6,436.00	0.44	232.56	6,435.60	259.12	142.62	287.03	0.29	-0.13	-30.99	-129.35
	NORMAL	6,531.00	0.63	212.69	6,530.60	258.46	142.05	286.15	0.28	0.20	-20.92	-54.54
	NORMAL	6,625.00	0.81	200.19	6,624.59	257.40	141.54	285.03	0.25	0.19	-13.30	-47.47
	NORMAL	6,719.00	0.88	187.06	6,718.58	256.06	141.23	283.83	0.22	0.07	-13.97	-76.77
	NORMAL	6,814.00	0.88	318.31	6,813.58	255.88	140.65	283.31	1.69	0.00	138.16	155.62
	NORMAL	6,909.00	0.75	322.81	6,908.57	256.92	139.79	283.49	0.15	-0.14	4.74	156.02
	NORMAL	7,003.00	0.44	305.44	7,002.56	257.62	139.12	283.55	0.38	-0.33	-18.48	-158.30
	NORMAL	7,098.00	0.19	246.19	7,097.56	257.77	138.68	283.36	0.40	-0.26	-62.37	-154.53
	NORMAL	7,192.00	0.31	220.81	7,191.56	257.51	138.37	282.96	0.17	0.13	-27.00	-55.86
	NORMAL	7,287.00	0.50	195.06	7,286.56	256.92	138.10	282.34	0.27	0.20	-27.11	-57.13
	NORMAL	7,381.00	0.69	189.56	7,380.55	255.96	137.90	281.50	0.21	0.20	-5.85	-19.49
	NORMAL	7,476.00	0.69	184.31	7,475.54	254.83	137.76	280.57	0.07	0.00	-5.53	-92.62
	NORMAL	7,570.00	0.88	180.94	7,569.54	253.54	137.71	279.59	0.21	0.20	-3.59	-15.35
	NORMAL	7,664.00	0.88	174.81	7,663.52	252.10	137.76	278.57	0.10	0.00	-6.52	-93.06
	NORMAL	7,759.00	1.19	180.94	7,758.51	250.39	137.81	277.35	0.35	0.33	6.45	22.74
2/29/2012	NORMAL	7,853.00	1.02	162.33	7,852.49	248.62	138.05	276.21	0.42	-0.18	-19.80	-124.45
	NORMAL	7,948.00	1.31	167.69	7,947.47	246.75	138.53	275.17	0.33	0.31	5.64	23.29
	NORMAL	8,042.00	2.31	143.44	8,041.43	244.18	139.89	274.21	1.32	1.06	-25.80	-49.99
	NORMAL	8,137.00	1.19	131.06	8,136.38	241.99	141.78	273.89	1.24	-1.18	-13.03	-167.47
	NORMAL	8,231.00	1.25	100.44	8,230.36	241.16	143.52	274.46	0.69	0.06	-32.57	-100.17
	NORMAL	8,325.00	1.63	0.00	8,324.34	242.32	144.53	275.99	2.37	0.40	-106.85	-133.94
	NORMAL	8,420.00	1.56	120.56	8,419.32	243.01	145.64	277.26	2.92	-0.07	126.91	150.99
	NORMAL	8,514.00	1.44	162.06	8,513.29	241.24	147.11	276.95	1.14	-0.13	44.15	116.77
	NORMAL	8,609.00	1.44	176.19	8,608.26	238.91	147.56	275.55	0.37	0.00	14.87	97.06
	NORMAL	8,704.00	1.63	166.31	8,703.23	236.40	147.95	273.98	0.34	0.20	-10.40	-59.33
	NORMAL	8,798.00	1.69	157.69	8,797.19	233.82	148.80	272.66	0.27	0.06	-9.17	-80.82
	NORMAL	8,893.00	1.94	164.56	8,892.14	230.98	149.76	271.23	0.35	0.26	7.23	44.50
	NORMAL	8,987.00	1.88	162.19	8,986.09	227.98	150.65	269.63	0.11	-0.06	-2.52	-128.40
	NORMAL	9,081.00	1.81	162.94	9,080.04	225.09	151.56	268.13	0.08	-0.07	0.80	161.34
	NORMAL	9,176.00	1.81	161.31	9,174.99	222.23	152.48	266.66	0.05	0.00	-1.72	-90.81
	NORMAL	9,270.00	1.75	158.81	9,268.95	219.49	153.48	265.32	0.10	-0.06	-2.66	-128.94
	NORMAL	9,365.00	1.88	161.56	9,363.90	216.66	154.49	263.94	0.16	0.14	2.89	35.20
	NORMAL	9,459.00	1.94	156.81	9,457.85	213.73	155.61	262.55	0.18	0.06	-5.05	-71.63
3/1/2012	NORMAL	9,553.00	2.00	159.00	9,551.79	210.74	156.82	261.18	0.10	0.06	2.33	52.54
	NORMAL	9,648.00	2.06	158.06	9,646.73	207.61	158.05	259.72	0.07	0.06	-0.99	-29.50
	NORMAL	9,648.00	2.06	158.06	9,646.73	207.61	158.05	259.72	0.00	0.00	0.00	0.00
	NORMAL	9,742.00	2.25	157.19	9,740.67	204.34	159.40	258.23	0.21	0.20	-0.93	-10.20
	NORMAL	9,837.00	2.50	155.81	9,835.59	200.73	160.97	256.65	0.27	0.26	-1.45	-13.57
	NORMAL	9,931.00	2.56	148.94	9,929.49	197.06	162.89	255.27	0.33	0.06	-7.31	-82.25

2.2.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
3/1/2012	NORMAL	10,026.00	2.63	148.69	10,024.40	193.38	165.12	254.08	0.07	0.07	-0.26	-9.31
3/2/2012	NORMAL	10,214.00	2.94	139.31	10,212.18	186.04	170.51	252.35	0.29	0.16	-4.99	-60.52
	NORMAL	10,309.00	2.81	137.94	10,307.06	182.47	173.66	251.87	0.15	-0.14	-1.44	-152.82
	NORMAL	10,403.00	2.69	144.19	10,400.95	178.97	176.49	251.23	0.34	-0.13	6.65	114.91
	NORMAL	10,498.00	2.81	141.06	10,495.84	175.35	179.26	250.45	0.20	0.13	-3.29	-52.94
	NORMAL	10,593.00	2.69	141.69	10,590.73	171.79	182.10	249.77	0.13	-0.13	0.66	166.18
3/3/2012	NORMAL	10,687.00	2.81	139.56	10,684.62	168.30	184.96	249.16	0.17	0.13	-2.27	-41.49
	NORMAL	10,781.00	3.00	139.44	10,778.50	164.68	188.06	248.60	0.20	0.20	-0.13	-1.89
	NORMAL	10,876.00	2.94	139.31	10,873.37	160.94	191.26	248.04	0.06	-0.06	-0.14	-173.66
	NORMAL	10,970.00	3.25	143.69	10,967.24	156.97	194.41	247.26	0.41	0.33	4.66	39.54
	NORMAL	11,065.00	3.31	141.94	11,062.08	152.64	197.70	246.32	0.12	0.06	-1.84	-59.94
	NORMAL	11,159.00	3.25	145.94	11,155.93	148.29	200.86	245.28	0.25	-0.06	4.26	106.68
	NORMAL	11,230.00	3.44	145.56	11,226.80	144.87	203.20	244.36	0.27	0.27	-0.54	-6.85
	NORMAL	11,290.00	3.44	145.56	11,286.70	141.90	205.23	243.56	0.00	0.00	0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/28/2015 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="display: flex; justify-content: space-between;"> <div style="width: 65%;"> <p>KERR MCGEE OIL & GAS ONSHORE LP is requesting to do a recomple on the NBU 921-21A3AS. See the attached procedures for the recomple.</p> </div> <div style="width: 30%; text-align: right;"> <p>Accepted by the Utah Division of Oil, Gas and Mining</p> <p>Date: September 28, 2015 By: </p> </div> </div>					
NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II			
SIGNATURE N/A		DATE 9/25/2015			



Greater Natural Buttes Unit

**NBU 921-21A3AS
RE-COMPLETIONS PROCEDURE
NBU 921-21A PAD
FIELD ID: YELLOW WELL**

**DATE: 9/22/2015
AFE#:2028692
API#:4304750610
USER ID: GBN569 (Frac Invoices Only)**

**COMPLETIONS ENGINEER: Jose Moreno
201-424-8022 (Cell)**

REMEMBER SAFETY FIRST!

Name: **NBU 921-21A3AS**
Location: **NE SW NE NE Sec 21 T9S R21E**
LAT: 40.026061 **LONG:** -109.550279 **COORDINATE:** NAD83 (*Surface Location*)
Uintah County, UT
Date: **4/13/2012**

ELEVATIONS: 4829' GL 4855' KB *Frac Registry TVD: 11287'*

TOTAL DEPTH: 11290'

PBTD: 11237'

SURFACE CASING:

8 5/8", 28# J-55 LT&C @ 2734'

PRODUCTION CASING:

4 1/2", 11.6#, P-110 DQX LTC @ 5124'

4 1/2", 11.6#, P-110 LTC @ 5124-11283'

Marker Joint **5072-5094, 7850-7871, and 10624-10644'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# N-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

BOTTOMS:

1723' Green River Top
 2019' Bird's Nest Top
 2350' Mahogany Top
 5039' Wasatch Top
 8237' Mesaverde Top

8237' Wasatch Bottom
 11290' Mesaverde Bottom (TD)

T.O.C. @ 1590' SLB CBL 3/23/2012

Hydraulic Isolation @ 3810'

GENERAL NOTES:

- **Please note that:**
 - All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.
 - CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.
- A minimum of 6 tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburton's Induction-Density-Neutron log dated 3/4/2012
- 1 fracturing stages required for coverage.
- Procedure calls for 2 CBP's (8000 psi) .

- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**
- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure 7000 **psi.**
- **If casing pressure test fails. Contact Denver Engineer.**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Mesaverde 1 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing – design will over flush stage by 5 bbls (from top perf)
- **TIGHT SPACING ON STAGE**
- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**

Existing Perforations:

Please insert perforations from OpenWells. Make sure you QC perfs.

PERFORATIONS												
Date	Formation	Zone	Top	Btm	SPF	No. Holes	Diameter	Phasing	Reason	Status	Comments	
05/01/2012	MESAVERDE	BLACKHAWK	10743	10744	4	4	0.36	90	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10761	10764	4	12	0.36	90	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10786	10788	4	8	0.36	90	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10824	10826	3	6	0.36	120	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10854	10855	3	3	0.36	120	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10916	10919	3	9	0.36	120	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10928	10930	3	6	0.36	120	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	11060	11062	4	8	0.36	90	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	11134	11138	4	16	0.36	90	PRODUCTION	OPEN		

Relevant History:

5/1/2012: Originally completed in Mesaverde formation (1 stages) with ~ 335,919 gallons of Slickwater, 183,479 lbs of 30/50 Ottawa Sand sand

11/20/2014: Last slickline report:

	From	To	Duration (hr)	Phase	Code	Code description	Sub Code	Sub description	P/U	Operation
1	07:00	11:00	4.00	MAINT	35	SLICKLINE			P	DRIVE TO LOCATION, HAVE SAFETY MEETING, RIG UP, TUBING PRESSURE 242, CASING PRESSURE 281, RIH WITH JDC TO 10714' AND FISH PAD PLUNGER, PLUNGER GOOD, RIH WITH JDC TO 10778' AND FISH SPRING, RIH WITH 1.90 BROACH TO SN, DROP SPRING, RIH AND CHASE SPRING TO SN, DROP PAD PLUNGER, RIG DOWN MOVE LOCATIONS.

5/11/2012: Tubing Currently Landed @~10,808' (340 JTS)

H2S History:

Insert recent/available H₂S data from Amulet (??)

PROCEDURE: (If using any chemicals for pickling tubing or H₂S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. The tubing is below the proposed CBP depth. TOO H with 2-3/8", 4.7#, P-110 tubing. Visually inspect for scale and consider replacing if needed. The tubing is above the proposed CBP depth, RIH with 2-3/8", 4.7#, P-110 tubing and tag for fill before TOO H. Visually inspect for scale and consider replacing if needed
3. If tbg looks ok consider running a gauge ring to 10,324 (50' below proposed CBP). Otherwise P/U a mill and C/O to 10,324 (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 10274'. ND BOPs and NU frac valves Test frac valves and casing to to **7,000 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve.** Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.
6. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	10212	10214	3	6
MESAVERDE	10222	10224	3	6
MESAVERDE	10230	10232	3	6
MESAVERDE	10242	10244	3	6

7. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~10212' and flush only with recycled water .
8. Set 8000 psi CBP at~10154'.
9. ND Frac Valves, NU and Test BOPs.
10. TIH with 3 7/8" bit, pump open sub, SN and tubing.
11. Drill 1 plugs and clean out to a depth of 10264' (~ 20' below bottom perfs).
12. Shift pump open bit sub and land tubing at 10,182'. Flow back completion load. RDMO.
13. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
14. **Leave surface casing valve open**. Monitor and report any flow from surface casing. RDMO

Key Contact information

For design questions, please call Completion Engineer

Jose Moreno: 201/424-8022, 720/929-4380

For field implementation questions, please call

Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Brad Burman: 435/828-8006, 435/781-7042

Production Engineer

Robert Miller: 435/781-7041, 435/828-6510

Mickey Doherty: 435/781-9740, 406/491-7294

Ronald Trigo: 435/781-7037, 352/213-6630

Ryckur Schuttler: 435/781-7055, 954/675-1037

Boone Bajgier: 435/781-7096, 713/416-4816

Jake Roberts: 435/781-7015, 716/499-6569

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Vernal IOC

Name NBU 921-21A3AS
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	MESAVERDE	10212	10214	3	6		10211.5	to	10246
	MESAVERDE	10222	10224	3	6				
	MESAVERDE	10230	10232	3	6				
	MESAVERDE	10242	10244	3	6				
	MESAVERDE			3					
	MESAVERDE			3					
	MESAVERDE								
	MESAVERDE								
	# of Perfs/stage				24		CBP DEPTH	10,154	

MD	TVD	INC		MD	TVD	INC
22.01	22.01	0		5681	5652.38	1.31
194.01	194.01	0.26		5776	5747.36	0.94
280.01	280	1.3		5870	5841.35	0.75
362.01	361.96	2.5		5964	5935.35	0.75
452.01	451.84	3.31		6059	6030.34	0.5
542.01	541.6	5.06		6153	6124.34	0.63
632.01	631.11	6.88		6248	6219.33	0.63
722.01	720.31	8.38		6342	6313.33	0.56
812.01	809.12	10.25		6436	6407.32	0.44
902.01	897.47	11.69		6531	6502.32	0.63
992.01	985.52	12.25		6625	6596.31	0.81
1082.01	1073.34	13		6719	6690.3	0.88
1172.01	1161.08	12.75		6814	6785.3	0.88
1262.01	1248.83	12.94		6909	6880.29	0.75
1352.01	1336.6	12.63		7003	6974.28	0.44
1442.01	1424.62	11.44		7098	7069.28	0.19
1532.01	1512.91	10.88		7192	7163.28	0.31
1622.01	1601.21	11.44		7287	7258.28	0.5
1712.01	1689.63	10.06		7381	7352.27	0.69
1802.01	1778.31	9.56		7476	7447.26	0.69
1892.01	1867.07	9.5		7570	7541.26	0.88
1982.01	1955.94	8.69		7664	7635.24	0.88
2072.01	2045.07	7.25		7759	7730.23	1.19
2162.01	2134.37	7		7853	7824.21	1.02
2252.01	2223.91	4.56		7948	7919.19	1.31
2342.01	2313.74	2.44		8042	8013.14	2.31
2432.01	2403.68	1.69		8137	8108.1	1.19
2522.01	2493.66	0.44		8231	8202.08	1.25
2612.01	2583.66	0.19		8325	8296.05	1.63
2702.01	2673.66	0.13		8420	8391.01	1.56
2718.01	2689.66	0.16		8514	8484.98	1.44
2753	2724.65	0.35		8609	8579.95	1.44
2847	2818.65	0.31		8704	8674.92	1.63
2941	2912.65	0.25		8798	8768.88	1.69
3036	3007.65	0.44		8893	8863.83	1.94
3130	3101.64	0.69		8987	8957.78	1.88
3225	3196.64	0.88		9081	9051.73	1.81
3319	3290.62	1.13		9176	9146.69	1.81
3414	3385.61	0.44		9270	9240.64	1.75
3508	3479.61	0.69		9365	9335.59	1.88
3603	3574.6	0.69		9459	9429.54	1.94
3697	3668.59	0.75		9553	9523.48	2
3792	3763.58	1		9648	9618.43	2.06
3886	3857.57	1.19		9742	9712.36	2.25
3980	3951.56	0.69		9837	9807.28	2.5
4075	4046.55	0.56		9931	9901.19	2.56
4169	4140.55	0.69		10026	9996.09	2.63
4264	4235.54	1		10120	10089.99	2.63
4358	4329.52	1.31		10214	10183.88	2.94
4453	4424.5	0.69		10309	10278.76	2.81
4547	4518.5	0.38		10403	10372.65	2.69
4642	4613.5	0.63		10498	10467.54	2.81
4736	4707.49	0.88		10593	10562.43	2.69
4831	4802.47	1.19		10687	10656.32	2.81
4925	4896.45	1.5		10781	10750.2	3
5020	4991.43	0.81		10876	10845.08	2.94
5114	5085.42	0.44		10970	10938.94	3.25
5209	5180.42	0.56		11065	11033.78	3.31
5303	5274.42	0.5		11159	11127.63	3.25
5398	5369.41	0.5		11230	11198.51	3.44
5492	5463.41	0.56		11290	11258.4	3.44
5587	5558.41	1.19				

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLs 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLs 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: Uintah
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/12/2015 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> </div> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The NBU 921-21A3AS well was returned to production on 10/12/2015 following a recompleat. Thank you.		
NAME (PLEASE PRINT) Jennifer Thomas		PHONE NUMBER 720 929-6808
SIGNATURE N/A		TITLE Regulatory Specialist
DATE 10/14/2015		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576																														
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE																														
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES																														
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000																														
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES																														
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/28/2015 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR																														
<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME																														
<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE																														
<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION																														
<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK																														
<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION																														
<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON																														
<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL																														
<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION																														
<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>																														
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & gas Onshore, LP respectfully requests to recomplete a second formation in the NBU 921-21A3AS well. Please see the attached procedure for details. Thank you.																																
Accepted by the Utah Division of Oil, Gas and Mining Date: <u>October 28, 2015</u> By: <u><i>Derek Duff</i></u>																																
NAME (PLEASE PRINT) Kristina Geno		PHONE NUMBER 720 929-6824																														
SIGNATURE N/A		TITLE Regulatory Analyst																														
DATE 10/27/2015																																



Greater Natural Buttes Unit

**NBU 921-21A3AS
RE-COMPLETIONS PROCEDURE
NBU 921-21A PAD
FIELD ID: YELLOW WELL**

**DATE: 10/26/15
AFE#:
API#:4304750610
USER ID: GBN569 (Frac Invoices Only)**

**COMPLETIONS ENGINEER: Jose Moreno
201-424-8022 (Cell)**

REMEMBER SAFETY FIRST!

Name: NBU 921-21A3AS
Location: NE NE Sec 21 T9S R21E
LAT: 40.026061 **LONG:** -109.550279 **COORDINATE:** NAD83 (*Surface Location*)
Uintah County, UT
Date: 4/13/2012

ELEVATIONS: 4829' GL 4855' KB *Frac Registry TVD: 11287'*

TOTAL DEPTH: 11290'

PBTD: 11237'

SURFACE CASING: 8 5/8", 28# J-55 LT&C @ 2734'

PRODUCTION CASING: 4 1/2", 11.6#, P-110 DQX LTC @ 5124'

4 1/2", 11.6#, P-110 LTC @ 5124-11283'

Marker Joint **5072-5094, 7850-7871, and 10624-10644'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# N-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

BOTTOMS:

1723' Green River Top

2019' Bird's Nest Top

2350' Mahogany Top

5039' Wasatch Top

8237' Mesaverde Top

8237' Wasatch Bottom

11290' Mesaverde Bottom (TD)

T.O.C. @ 1590' SLB CBL 3/23/2012

Hydraulic Isolation @ 3810'

GENERAL NOTES:

- **Please note that:**
 - All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.
 - CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.
- A minimum of **34** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburton's Induction-Density-Neutron log dated 3/4/2012
- **2** fracturing stages required for coverage.
- Procedure calls for **3** CBP's (**8000** psi) .

- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**
- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure 7000 **psi.**
- **If casing pressure test fails. Contact Denver Engineer.**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Mesaverde 1 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing – design will over flush stage by 5 bbls (from top perf)
- **TIGHT SPACING ON STAGE 1**
- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**

Existing Perforations:

Please insert perforations from OpenWells. Make sure you QC perfs.

PERFORATIONS												
Date	Formation	Zone	Top	Btm	SPF	No. Holes	Diameter	Phasing	Reason	Status	Comments	
05/01/2012	MESAVERDE	BLACKHAWK	10743	10744	4	4	0.36	90	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10761	10764	4	12	0.36	90	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10786	10788	4	8	0.36	90	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10824	10826	3	6	0.36	120	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10854	10855	3	3	0.36	120	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10916	10919	3	9	0.36	120	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	10928	10930	3	6	0.36	120	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	11060	11062	4	8	0.36	90	PRODUCTION	OPEN		
05/01/2012	MESAVERDE	BLACKHAWK	11134	11138	4	16	0.36	90	PRODUCTION	OPEN		

Relevant History:

5/1/2012: Originally completed in Mesaverde formation (1 stages) with ~ 335,919 gallons of Slickwater, 183,479 lbs of 30/50 Ottawa Sand sand

11/20/2014: Last slickline report:

From	To	Duration (hr)	Phase	Code	Code description	Sub Code	Sub description	P/U	Operation
07:00	11:00	4.00	MAINT	35	SLICKLINE			P	DRIVE TO LOCATION, HAVE SAFETY MEETING, RIG UP, TUBING PRESSURE 242, CASING PRESSURE 281, RIH WITH JDC TO 10714' AND FISH PAD PLUNGER, PLUNGER GOOD, RIH WITH JDC TO 10778' AND FISH SPRING, RIH WITH 1.90 BROACH TO SN, DROP SPRING, RIH AND CHASE SPRING TO SN, DROP PAD PLUNGER, RIG DOWN MOVE LOCATIONS.

5/11/2012: Tubing Currently Landed @~10,808' (340 JTS)

10/07/2015 FRAC STG#1, SET KILLPLUG, RDMO. 1ST ROUND OF RECOMPLETES

10/12/2015 321 jts 23/8 P-110 tbg w/ 1.875 xn & pump open bs

H2S History:

Insert recent/available H₂S data from Amulet (??)

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. The tubing is below the proposed CBP depth. TOO H with 2-3/8", 4.7#, P-110 tubing. Visually inspect for scale and consider replacing if needed. The tubing is above the proposed CBP depth, RIH with 2-3/8", 4.7#, P-110 tubing and tag for fill before TOO H. Visually inspect for scale and consider replacing if needed
3. Set 8000 psi CBP at ~ 9828'. ND BOPs and NU frac valves Test frac valves and casing to to **7,000 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve.** Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
4. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.
5. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	9601	9602	3	3
MESAVERDE	9618	9619	3	3
MESAVERDE	9647	9648	3	3
MESAVERDE	9687	9688	3	3
MESAVERDE	9710	9711	3	3

MESAVERDE 9739	9740	3	3
MESAVERDE 9754	9755	3	3
MESAVERDE 9797	9798	3	3

6. Set 8000 psi CBP at~9586' .Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~9601' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

7. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	9387	9388	3	3
MESAVERDE	9414	9415	3	3
MESAVERDE	9431	9432	3	3
MESAVERDE	9455	9456	3	3
MESAVERDE	9483	9484	3	3
MESAVERDE	9535	9536	3	3
MESAVERDE	9552	9553	3	3
MESAVERDE	9570	9571	3	3

8. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Fracture as outlined in Stage 1 on attached listing. Under-displace to ~9387' and flush only with recycled water .
9. Set 8000 psi CBP at~9337'
10. ND Frac Valves, NU and Test BOPs.
11. TIH with 3 7/8" bit, pump open sub, SN and tubing.
12. Drill 2 plugs and clean out to a depth of 9818' (~ 20' below bottom perfs).
13. Shift pump open bit sub and land tubing at 9571' . Flow back completion load. RDMO.
14. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
15. **Leave surface casing valve open**. Monitor and report any flow from surface casing. RDMO

Key Contact information

For design questions, please call Completion Engineer
Jose Moreno: 201/424-8022, 720/929-4380

For field implementation questions, please call
Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Brad Burman: 435/828-8006, 435/781-7042

Production Engineer

Robert Miller: 435/781-7041, 435/828-6510

Mickey Doherty: 435/781-9740, 406/491-7294

Ronald Trigo: 435/781-7037, 352/213-6630

Ryckur Schuttler: 435/781-7055, 954/675-1037

Boone Bajgier: 435/781-7096, 713/416-4816

Jake Roberts: 435/781-7015, 716/499-6569

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Vernal IOC

435/781-9751

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435/789-3342

Police: 435/789-5835

Fire: 435/789-4222

Service Company Supplied Chemicals - Job Totals

Friction Reducer	191	gals @	0.3	GPT
Surfactant	476	gals @	0.75	GPT
Clay Stabilizer	318	gals @	0.5	GPT
15% Hcl	500	gals @	250	gal/stg
Iron Control for acid	3	gals @	5.0	GPT of acid
Surfactant for acid	1	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	3	gals @	6.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	318	gals pumped	0.5	GPT (see schedule)
Biocide	191	gals @	0.3	GPT

Name NBU 921-21A3AS
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	MESAVERDE	9601	9602	3	3		9599.5	to	9804
	MESAVERDE	9618	9619	3	3				
	MESAVERDE	9647	9648	3	3				
	MESAVERDE	9687	9688	3	3				
	MESAVERDE	9710	9711	3	3				
	MESAVERDE	9739	9740	3	3				
	MESAVERDE	9754	9755	3	3				
	MESAVERDE	9797	9798	3	3				
	# of Perfs/stage				24		CBP DEPTH	9,586	
2	MESAVERDE	9387	9388	3	3		9380	to	9574
	MESAVERDE	9414	9415	3	3				
	MESAVERDE	9431	9432	3	3				
	MESAVERDE	9455	9456	3	3				
	MESAVERDE	9483	9484	3	3				
	MESAVERDE	9535	9536	3	3				
	MESAVERDE	9552	9553	3	3				
	MESAVERDE	9570	9571	3	3				
	# of Perfs/stage				24		CBP DEPTH	9,337	

MD	TVD	INC		MD	TVD	INC
22.01	22.01	0		5681	5652.38	1.31
194.01	194.01	0.26		5776	5747.36	0.94
280.01	280	1.3		5870	5841.35	0.75
362.01	361.96	2.5		5964	5935.35	0.75
452.01	451.84	3.31		6059	6030.34	0.5
542.01	541.6	5.06		6153	6124.34	0.63
632.01	631.11	6.88		6248	6219.33	0.63
722.01	720.31	8.38		6342	6313.33	0.56
812.01	809.12	10.25		6436	6407.32	0.44
902.01	897.47	11.69		6531	6502.32	0.63
992.01	985.52	12.25		6625	6596.31	0.81
1082.01	1073.34	13		6719	6690.3	0.88
1172.01	1161.08	12.75		6814	6785.3	0.88
1262.01	1248.83	12.94		6909	6880.29	0.75
1352.01	1336.6	12.63		7003	6974.28	0.44
1442.01	1424.62	11.44		7098	7069.28	0.19
1532.01	1512.91	10.88		7192	7163.28	0.31
1622.01	1601.21	11.44		7287	7258.28	0.5
1712.01	1689.63	10.06		7381	7352.27	0.69
1802.01	1778.31	9.56		7476	7447.26	0.69
1892.01	1867.07	9.5		7570	7541.26	0.88
1982.01	1955.94	8.69		7664	7635.24	0.88
2072.01	2045.07	7.25		7759	7730.23	1.19
2162.01	2134.37	7		7853	7824.21	1.02
2252.01	2223.91	4.56		7948	7919.19	1.31
2342.01	2313.74	2.44		8042	8013.14	2.31
2432.01	2403.68	1.69		8137	8108.1	1.19
2522.01	2493.66	0.44		8231	8202.08	1.25
2612.01	2583.66	0.19		8325	8296.05	1.63
2702.01	2673.66	0.13		8420	8391.01	1.56
2718.01	2689.66	0.16		8514	8484.98	1.44
2753	2724.65	0.35		8609	8579.95	1.44
2847	2818.65	0.31		8704	8674.92	1.63
2941	2912.65	0.25		8798	8768.88	1.69
3036	3007.65	0.44		8893	8863.83	1.94
3130	3101.64	0.69		8987	8957.78	1.88
3225	3196.64	0.88		9081	9051.73	1.81
3319	3290.62	1.13		9176	9146.69	1.81
3414	3385.61	0.44		9270	9240.64	1.75
3508	3479.61	0.69		9365	9335.59	1.88
3603	3574.6	0.69		9459	9429.54	1.94
3697	3668.59	0.75		9553	9523.48	2
3792	3763.58	1		9648	9618.43	2.06
3886	3857.57	1.19		9742	9712.36	2.25
3980	3951.56	0.69		9837	9807.28	2.5
4075	4046.55	0.56		9931	9901.19	2.56
4169	4140.55	0.69		10026	9996.09	2.63
4264	4235.54	1		10120	10089.99	2.63
4358	4329.52	1.31		10214	10183.88	2.94
4453	4424.5	0.69		10309	10278.76	2.81
4547	4518.5	0.38		10403	10372.65	2.69
4642	4613.5	0.63		10498	10467.54	2.81
4736	4707.49	0.88		10593	10562.43	2.69
4831	4802.47	1.19		10687	10656.32	2.81
4925	4896.45	1.5		10781	10750.2	3
5020	4991.43	0.81		10876	10845.08	2.94
5114	5085.42	0.44		10970	10938.94	3.25
5209	5180.42	0.56		11065	11033.78	3.31
5303	5274.42	0.5		11159	11127.63	3.25
5398	5369.41	0.5		11230	11198.51	3.44
5492	5463.41	0.56		11290	11258.4	3.44
5587	5558.41	1.19				

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLs 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLs 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H₂S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLs MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H₂S.
4. FLUSH TUBING AND CASING PUSHING H₂S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H₂S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____				5. Lease Serial No. UTU0576	
2. Name of Operator KERR-MCGEE OIL AND GAS ONSHORE				6. If Indian, Allottee or Tribe Name	
3. Address P.O. BOX 173779 DENVER, CO 80217				7. Unit or CA Agreement Name and No. UTU63047A	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENE 1017FNL 833FEL 40.026061 N Lat, 109.550279 W Lon At top prod interval reported below At total depth				8. Lease Name and Well No. NBU 921-21A3AS	
14. Date Spudded 11/18/2011		15. Date T.D. Reached 03/03/2012		9. API Well No. 43-047-50610	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 10/12/2015		10. Field and Pool, or Exploratory NATURAL BUTTES			
18. Total Depth: MD 11290 TVD 11287		19. Plug Back T.D.: MD 10272 TVD		20. Depth Bridge Plug Set: MD 10276 TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) N/A				22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)	

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	10180							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	10212	10244	10212 TO 10244	0.410	24	OPEN
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
10212 TO 10244	PUMP 2319 BBLS SLICKWATER, 6 BBLS HCL ACID (12.5%-18%), 10593 LBS 30/50 MESH SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/12/2015	10/16/2015	24		0.0	516.0	962.0			FLows FROM WELL
Choke Size 64/64	Tbg. Press. Flwg. SI 17	Csg. Press. 2209.0	24 Hr. Rate 	Oil BBL 0	Gas MCF 516	Water BBL 962	Gas:Oil Ratio 	Well Status PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size 	Tbg. Press. Flwg. SI 	Csg. Press. 	24 Hr. Rate 	Oil BBL 	Gas MCF 	Water BBL 	Gas:Oil Ratio 	Well Status 	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #322384 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RECEIVED: Nov. 03, 2015

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER BIRDS NEST MAHOGANY MARKER WASATCH MESAVERDE	1723 2019 2350 5039 8237

32. Additional remarks (include plugging procedure):

Recomplete. A CIBP was set at 10,276 ft. and a CBP at 10,272 ft., isolating the Blackhawk Perforations from 10,743 - 11,138 ft. The well produced for a very short time and we have been unable to produce it further. Currently, the well is shut-in. Thank you.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #322384 Verified by the BLM Well Information System.
For KERR-MCGEE OIL AND GAS ONSHORE, sent to the Vernal**

Name(*please print*) JENNIFER THOMAS

Title REGULATORY SPECIALIST III

Signature _____ (Electronic Submission)

Date 11/03/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

RECEIVED: Nov. 03, 2015

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig name no.:

Event: RECOMPL/RESEREVEADD

Start date: 9/25/2015

End date: 10/12/2015

Active datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
9/25/2015	7:00 - 10:00	3.00	SUBSPR	35		P		WO 3592 TB 114 CS 272 FL GC Could not get Plunger up w/ Well. Ran w/Down Shear Fish to SN at 10714, latched, pulled Ultra Seal Pad Plunger. Ran in w/Down Shear Fish Tool to SN, latched, pulled Titanium Spring w/Single X-cups and Roll Pin, cups good. Fluid Level is gas cut. Went to next well. Left Spring and Plunger in Sep Bldg for Rig Job.
								FLUID LEVEL gas cut SEAT NIPPLE DEPTH 10714
9/28/2015	12:00 - 12:45	0.75	SUBSPR	30	A	P		SN TYPE Drop Down Menu TD (Max Depth) MIRU.
	12:45 - 14:00	1.25	SUBSPR	30	F	P		FCP & FTP = 50#. CNTRL TBNG W/ 20BBLS TMAC. CNTRL CSNG W/ 30BBLS TMAC. NDWH. UN-LAND TBG (NOT STUCK). LAND TBG BACK ON HANGER. FUNCTION TEST BOP. NUBOP. R/U FLOOR & TBG EQUIP. UN-LAND TBG & RMV HANGER. INSTALL WASHINGTON RUBBER. SPOT IN TRAILERS & PIPE WRANGLER.
	14:00 - 17:00	3.00	SUBSPR	31	I	P		MIRU SCANNERS. POOH WHILE SCANNING 250JTS 2-3/8" P-110 TBNG. L/D ALL TBNG. SWIFN. SDFN. LOCK RAMS.
9/29/2015	7:00 - 7:15	0.25	SUBSPR	48		P		SAFETY=JSA.
	7:15 - 9:00	1.75	SUBSPR	31	I	P		SICP & SITP = 150#. BLOW DOWN TBG & CSNG TO FLOWBACK TANK. R/U SCANNERS. FINISH POOH WHILE SCANNING REM 90JTS 2-3/8" P-110 TBNG. L/D ALL TBNG. SCAN RESULTS AS FOLLOWS FOR ENTIRE STRING (340 JTS).
								Y-BND= 336JTS B-BND= 2JTS DUE TO MINOR WALL LOSS. R-BND = 2JTS DUE TO GUALDED THREADS. LIGHT EXT SCALE THRU ENTIRE STRING. LIGHT INTERNAL SCALE ON LAST 2JTS ABOVE XN NIPPLE.
	9:00 - 10:40	1.67	SUBSPR	34	I	P		RDMO SCANNERS. MIRU WIRELINE. P/U & RIH W/ 3.60" GR-JB TO 10,300'. POOH & L/D GR-JB. P/U & RIH W/ OWEN 10K CIBP. SET CIBP @ 10,274'. POOH W/ TOOLS. RDMO E-LINE.
	10:40 - 11:10	0.50	SUBSPR	52	F	P		R/D FLOOR & TBG EQUIP. NDBOP. NUFV. LOAD 4-1/2" PRODUCTION CSNG W/ 138BBLS TMAC. PRESSURE TEST FRAC VALVE & 4-1/2" CSNG GOOD @ 3000#. HAD TO BUMP PREESURES UP TWICE DUE TO GAS IN CSNG. FINAL TEST LOST 5# IN 10MIN. FINAL PRESSURE TEST WILL BE PERFORMED WHEN ALL WELLS HAVE BEEN PREPPED. BLEED OFF PRESSURE. SWI.
	11:10 - 12:00	0.83	SUBSPR	30	C	P		RDMO.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig name no.:

Event: RECOMPL/RESEREVEADD

Start date: 9/25/2015

End date: 10/12/2015

Active datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
9/30/2015	14:30 - 15:25	0.92	SUBSPR	34	I	P		MIRU E-LINE. P/U & RIH W/ HAL 10K CBP. PRESSURE UP 4-1/2" PRODUCTION CSNG TO 3000#. SET CBP UNDER PRESSURE @ 10,270' W/ 3K PSI. POOH E-LINE. RDMO E-LINE. SWI.
	15:25 - 15:40	0.25	SUBSPR	52	A	P		MIRU P/T TRUCK. PRESSURE TEST 4-1/2" PRODUCTION CSNG & FRAC VALVE GOOD @ 7000#. LOST 49PSI IN 15MIN.
								PUMP 1/2BBL TMAC INTO SURFACE CSNG. P/T SURFACE CSNG @ 1000#. LOST 15# IN 10MIN. BLEED OFF PSI. SWI.
10/1/2015	8:00 - 9:00	1.00	FRAC	37	E	P		RU EL PERFED 1ST STG AS DESIGNED POOH SWIFW
10/6/2015	7:00 - 15:00	8.00	FRAC	36	E	P		HSM, MIRU FRAC CREW, P/T PUMPS & LINES TO 8000 PSI, HAVING TROUBLE GETTING P/T, GOING TO LET FRAC CREW REBIULD PUMPS & GET P/T, FRAC IN AM, SDFN
10/7/2015	5:45 - 6:00	0.25	FRAC	48	E	P		HSM, SLIPS, TRIPS & FALLS, RUSHING
	6:00 -	0.00	FRAC	36	E	P		P/T TO 8000 PSI, LOST 399 PSI IN 15 MIN,
								FRAC STG #1) WHP 1920 PSI, BRK 4065 PSI @ 2.7 BPM. ISIP 3382 PSI, FG. 0.77 ISIP 3893 PSI, FG. 0.83, NPI 511 PSI.
								X/O TO W/L SET HAL 8K CBP AS PER DESIGN
								WATER: 2325 BBLS SAND: 10593 # SCALE: 43 GAL BIO: 30 GAL
								RDMO
10/9/2015	12:00 - 17:00	5.00	DRLOUT	31	I	P		RU RIG. OPEN WELL 0 PSI. ND WH. NU BOP. RU RIG FLOOR & TBG EQUIP. PREP & TALLY NEW 23/8 P-110 TBG. PU 37/8 BIT, X-DART, PUMP OPEN BIT SUB & 1.875 XN. RU W/ 224 JTS TBG, EOT @ 7108'. SWIFWE.
10/12/2015	6:45 - 7:00	0.25	DRLOUT	48		P		HSM.
	7:00 - 9:00	2.00	DRLOUT	31	I	P		OPEN WELL 0 PSI. CONT RIH W/ TBG F/ 7108'. TAG SAND W/ 319 JTS P-110 @ 10,125'. 1st CBP)TAG SAND @ 10,125' = 29' SAND.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig name no.:

Event: RECOMPL/RESEREVEADD

Start date: 9/25/2015

End date: 10/12/2015

Active datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	9:00 - 12:00	3.00	DRLOUT	44	C	P		RU DRL EQUIP. FILL TBG. P/T BOP T/ 3000 PSI. GOOD TEST. BLEED OFF PSI. BK CONV CIRC. BEG DRL OUT. 1st CBP)TAG SAND @ 10,125' = 29' SAND. DRL OUT CBP @ 10,154' IN 10 MIN. 1400 PSI INCR. CONT CO T/ 10,264'. CIRC WELL. POOH LD 3 JTS TBG. PU 41/16 TBG HNGR. LAND TBG W/ 321 JTS 23/8 P-110 TBG W/ 1.875 XN W/ PUMP OPEN BIT SUB. EOT @ 10,180'. RD TBG EQUIP & RIG FLOOR. ND BOP, NU WH. DROP BALL. LET BALL FALL FOR 45 MIN. P/T HAL 9000 LINES T/ 3000 PSI. GOOD TEST. BLEED OFF PSI. RIG PUMP T/ TBG, PUMP BIT OPEN W/ 3700 PSI. OPEN TBG T/ FBT. SICP = 2260 PSI. FTP = 50 PSI. CSG PSI DROPPED OFF VERY FAST (5 MIN CSG @ 1000 PSI) TURN WELL OVER T/ FBC. RD RIG & SLIDE RIG T/ 21A2DS.
10/13/2015	8:45 - 9:00	0.25	DRLOUT	48		P		HSM.
	9:00 - 12:00	3.00	DRLOUT	33	A	P		RU FOAM UNIT W/ N2 T/ TBG. NULOAD WELL IN 1hr. RECOVERD 120 BBLS T/ FBT. SHUT DOWN PUMPING. PURGE WELL ON BOTH SIDE. ATTEM T/ SELL GAS. WELL WOULD NOT SALE. LET WELL FLOW T/ FBT.
10/14/2015	10:00 - 12:00	2.00	DRLOUT	33	A	P		BLOW CSG DOWN. RU FOAM UNIT / N2 UNIT T/ CSG. UNLOAD WELL, 1hr 30 min T/ UNLOAD WELL. 25 - 30 BBLS RECOVERD. SHUT DOWN PUMPING. SHUT IN CSG. OPEN TBG T/ FBT ON OPEN CHOKE.

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-21A3AS YELLOW	Wellbore No.	00
Well Name	NBU 921-21A3AS	Wellbore Name	NBU 921-21A3AS
Report no.	1	Report date	9/25/2015
Project	UTAH-UINTAH	Site	NBU 921-21A PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start date	9/25/2015	End date	10/12/2015
Spud date	1/9/2012	Active datum	RKB @4,855.00usft (above Mean Sea Level)
UWI	NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0		

1.3 General

Contractor		Job method		Supervisor	
Perforated Assembly		Conveyed method			

1.4 Initial Conditions

Fluid type		Fluid density	
Surface press.		Estimate res press	
TVD fluid top		Fluid head	
Hydrostatic press.		Press. difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	10,212.0 (usft)-10,244.0 (u	Start Date/Time	9/25/2015 12:00AM
No. of intervals	4	End Date/Time	9/25/2015 12:00AM
Total shots	24	Net perforation interval	8.00 (usft)
Avg. shot density	3.00 (shot/ft)	Final surface pressure	
		Final press. date	

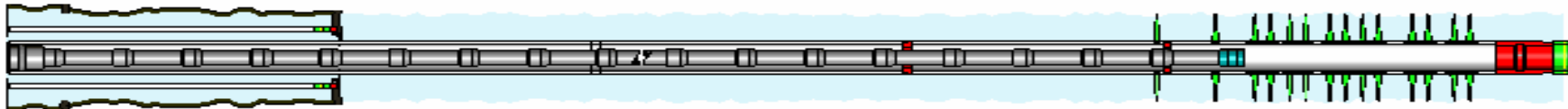
2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
9/25/2015 12:00AM	M E S A V E RDE/			10,212.0	10,214.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
9/25/2015 12:00AM	M E S A V E RDE/			10,222.0	10,224.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		
9/25/2015 12:00AM	M E S A V E RDE/			10,230.0	10,232.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		
9/25/2015 12:00AM	M E S A V E RDE/			10,242.0	10,244.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		

3 Plots**3.1 Wellbore Schematic**

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0576
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-21A3AS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1017 FNL 0833 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047506100000
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UINTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/1/2015 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The NBU 921-21A3AS well was returned to production on 12/1/2015 following a recompleat. Thank you.		
NAME (PLEASE PRINT) Jennifer Thomas		PHONE NUMBER 720 929-6808
SIGNATURE N/A		TITLE Regulatory Specialist
DATE 12/2/2015		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 02, 2015

Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____				5. Lease Serial No. UTU0576	
2. Name of Operator KERR-MCGEE OIL AND GAS ONSHORE				6. If Indian, Allottee or Tribe Name	
3. Address P.O. BOX 173779 DENVER, CO 80217				7. Unit or CA Agreement Name and No. UTU63047A	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 21 T9S R21E Mer SLB At surface NENE 1019FNL 778FEL 40.026061 N Lat, 109.550279 W Lon Sec 21 T9S R21E Mer At top prod interval reported below Sec 21 T9S R21E Mer At total depth				8. Lease Name and Well No. NBU 921-21A3AS	
14. Date Spudded 11/18/2011		15. Date T.D. Reached 03/03/2012		9. API Well No. 43-047-50610	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 12/02/2015		10. Field and Pool, or Exploratory NATURAL BUTTES			
18. Total Depth: MD 11290 TVD 11287		19. Plug Back T.D.: MD 9830 TVD		11. Sec., T., R., M., or Block and Survey or Area Sec 21 T9S R21E Mer SLB	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) N/A		12. County or Parish UTAH 13. State UT 17. Elevations (DF, KB, RT, GL)* 4855 KB			
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)					

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9583							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8237	11290	9387 TO 9798	0.410	48	OPEN
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9387 TO 9798	PUMP 15292 BBLS SLICKWATER, 12 BBLS 15% HCL ACID, 72464 LBS 30/50 MESH SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/02/2015	12/23/2015	24		0.0	813.0	108.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. 151 SI	Csg. Press. 794.0	24 Hr. Rate	Oil BBL 0	Gas MCF 813	Water BBL 108	Gas:Oil Ratio	Well Status PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #327505 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RECEIVED: Dec. 30, 2015

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)
SOLD

30. Summary of Porous Zones (Include Aquifers):				31. Formation (Log) Markers	
Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.					
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER BIRDS NEST MAHOGANY MARKER WASATCH MESAVERDE	1723 2019 2350 5039 8237

32. Additional remarks (include plugging procedure):
Recomplete. A composite solid plug was set at 9828 ft., isolating the Mesaverde perforations from 10,212 - 10,244 ft. Thank you.

33. Circle enclosed attachments:			
1. Electrical/Mechanical Logs (1 full set req'd.)	2. Geologic Report	3. DST Report	4. Directional Survey
5. Sundry Notice for plugging and cement verification	6. Core Analysis	7 Other:	

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #327505 Verified by the BLM Well Information System.
For KERR-MCGEE OIL AND GAS ONSHORE, sent to the Vernal**

Name(*please print*) JENNIFER THOMAS Title REGULATORY SPECIALIST III

Signature (Electronic Submission) Date 12/30/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

RECEIVED: Dec. 30, 2015

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig name no.:

Event: RECOMPL/RESEREVEADD

Start date: 11/6/2015

End date: 12/2/2015

Active datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
11/2/2015	7:00 - 7:15	0.25	SUBSPR	48		P		HSM-JSA
	7:15 - 17:00	9.75	SUBSPR	31	I	P		SICP 250 PSI, CNTRL WELL W/ 20 BBLS TMAC, NDWH, NUBOP, UNLAND TBG, PU 3 JTS TBG RIH TAG FILL @10257', LD 3 JTS TBG, SPOT TBG TRLR, POOH LD 321 JTS 2 3/8" P-110 TBG, RD FLOOR & TBG EQUIP, NDBOP, NUFV, SWI, SDFN.
11/4/2015	15:00 - 16:00	1.00	SUBSPR	34	I	P		MIRU CUTTERS WIRELINE, RIH W/ 10K CBP SET @ 9828'
11/5/2015	10:00 - 12:00	2.00	SUBSPR	52	A	P		FILL CSG W/ WTR, MIRU CAMERON TEST TRUCK, TEST CSG & FRAC VALVES TO 7000 PSI, LOST 30 PSI IN 15 MIN, SWI, SDFN.
11/6/2015	14:00 - 17:30	3.50	SUBSPR	37	E	P		RIH W/ GUN PERF STG #1 OF PHASE 2 AS DESIGNED, POOH, SWI, RDMO CUTTERS WIRELINE, SDFN.
11/23/2015	6:00 - 0:00	18.00	FRAC	36	H	P		HSM, PRESSURD TESTED LINES. TO 8555 PSI, LOST 830 PSI IN 15 MIN.
								FRAC STAGE 1)WHP 1674 PSI, BRK 5246 PSI @ 2.8 BPM. ISIP 3040 PSI, FG. 0.75 ISIP 3593 PSI, FG. 0.81, NPI 553 PSI.
								SET HAL 8K CBP & PERF STG #2 AS DESIGNED
11/24/2015	0:00 - 2:30	2.50	FRAC	46	F	Z		WAIT FOR WATER TRANSFER CREW TO PUMP WATER TO LOC
	2:30 - 5:45	3.25	FRAC	36	H	P		FRAC STG #2) WHP 3035 PSI, BRK 5199 PSI @ 3.3 BPM. ISIP 3335 PSI, FG. 0.79 ISIP 3283 PSI, FG. 0.79, NPI -52 PSI.
								CROSS OVER TO WIRELINE.
								TOTAL FLUID; 15,304 BBLS TOTAL SAND; 72,464#
	5:45 - 13:45	8.00	FRAC	46	F	Z		WAIT FOR WATER TRANSFER CREW TO PUMP WATER TO LOC
11/30/2015	7:00 - 7:15	0.25	DRLOUT	48		P		SAFETY = JSA.
	7:15 - 8:00	0.75	DRLOUT	30	C	P		RDMO NBU 921-21A2DS. SLIDE RIG OVER TO NEXT WELL.
	8:00 - 9:00	1.00	DRLOUT	30	A	P		MIRU. SPOT IN PIPE WRANGLER & PIPE RACKS.
	9:00 - 9:30	0.50	DRLOUT	30	F	P		SICP= 0#. NDWH. NUBOP. FUNCTION TEST BOP. N/U FLOWLINE.
	9:30 - 16:00	6.50	DRLOUT	31	I	P		PREP & TALLY TBNG ON THE PIPE RACKS. P/U & RIH W/ 3-7/8" BIT, PUMP OPEN SUB, 1.875" XN & 295JTS 2-3/8" P-110 TBNG. T/U ON KILL CBP @9337'. R/U POWER SWIVEL. PUH 1JT. SWIFN. LOCK RAMS. WINTERIZE EQUIP. SDFN.
12/1/2015	7:00 - 7:15	0.25	DRLOUT	48		P		SAFETY = JSA.
	7:15 - 7:40	0.42	DRLOUT	52	F	P		0# ON WELL. BREAK CONV CIRC W/ TMAC. P/T CSNG & BOP GOOD @ 3000#. BLEED OFF PRESSURE.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-21A3AS YELLOW

Spud date: 1/9/2012

Project: UTAH-UINTAH

Site: NBU 921-21A PAD

Rig name no.:

Event: RECOMPL/RESEREVEADD

Start date: 11/6/2015

End date: 12/2/2015

Active datum: RKB @4,855.00usft (above Mean Sea Level)

UWI: NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
	7:40 - 11:00	3.33	DRLOUT	44	C	P		<p>D/O 2 CBP'S AND C/O TO PBTD AS FOLLOWS:</p> <p>#1 CBP @9337'. D/O IN 11 MIN W/ 800# DIFF PRESSURE. FCP= 200#. CONT RIH W/ TBNG. C/O 20' SAND. T/U ON NEXT CBP.</p> <p>#2 CBP @9586'. D/O IN 17 MIN W/ 900# DIFF PRESSURE. FCP= 850#. CONT RIH W/ TBNG. C/O 15' SAND. T/U ON ISOLATION PLUG @ 9826' W/ 310JTS TBNG + BHA. CIRC WELL CLEAN. R/D POWER SWIVEL. POOH WHILE L/D 8JTS TBNG NOT NEEDED FOR PRODUCTION. LUBE IN HANGER. LAND TBNG. R/D FLOOR & TBNG EQUIP. NDBOP. NUWH. PRESSURE TEST FLOWLINES GOOD @ 3000#. PUMP OPEN BIT SUB @ 3400# W/ 30BBLS TMAC. SICP= 2350#. SITP= 2100#. TURN WELL OVER TO FLOWBACK CREW.</p> <p>PRODUCTION TBNG LANDED AS FOLLOWS:</p> <p>K.B.= 26.00'</p> <p>HANGER= .83'</p> <p>301JTS 2-3/8" P-110 Y-BND TBNG= 9520.96'</p> <p>1.875" XN= 1.34'</p> <p>1JT 2-3/8" P-110 Y-BND TBNG= 31.66'</p> <p>PUMP OPEN SUB=2.20'</p> <p>EOT @9582.99'</p> <p>XN @9547.79'</p> <p>TOTAL FLUID PUMPED = 15,304BBLS</p> <p>RIG RECOVERED = 800BBLS</p> <p>TWLTR= 14,504BBLS</p>
	11:00 - 11:00	0.00	DRLOUT	50				<p>WELL TURNED TO SALES @ 11:00 HR ON 12/2/2015. 1.8 MCFD, 2400 BWP, FCP 1964#, FTP 1600#, 28/64 CK.</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-21A3AS YELLOW	Wellbore No.	00
Well Name	NBU 921-21A3AS	Wellbore Name	NBU 921-21A3AS
Report no.	1	Report date	11/23/2015
Project	UTAH-UINTAH	Site	NBU 921-21A PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start date	11/6/2015	End date	12/2/2015
Spud date	1/9/2012	Active datum	RKB @4,855.00usft (above Mean Sea Level)
UWI	NE/NE/0/9/S/21/E/21/0/0/26/PM/N/1017/E/0/833/0/0		

1.3 General

Contractor		Job method		Supervisor	
Perforated Assembly		Conveyed method			

1.4 Initial Conditions

Fluid type		Fluid density	
Surface press.		Estimate res press	
TVD fluid top		Fluid head	
Hydrostatic press.		Press. difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	9,387.0 (usft)-9,798.0 (usft)	Start Date/Time	11/23/2015 12:00AM
No. of intervals	16	End Date/Time	11/23/2015 12:00AM
Total shots	48	Net perforation interval	16.00 (usft)
Avg. shot density	3.00 (shot/ft)	Final surface pressure	
		Final press. date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
11/23/2015 12:00AM	M E S A V E RDE/			9,387.0	9,388.0	3.00		0.410	EXP/2	3.125	120.00		19.00	PRODUCTION		0

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
11/23/2015 12:00AM	M E S A V E R D E/			9,414.0	9,415.0	3.00		0.410	EXP/2	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,431.0	9,432.0	3.00		0.410	EXP/2	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,455.0	9,456.0	3.00		0.410	EXP/2	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,483.0	9,484.0	3.00		0.410	EXP/2	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,535.0	9,536.0	3.00		0.410	EXP/2	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,552.0	9,553.0	3.00		0.410	EXP/2	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,570.0	9,571.0	3.00		0.410	EXP/2	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,601.0	9,602.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,618.0	9,619.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,647.0	9,648.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,687.0	9,688.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,710.0	9,711.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,739.0	9,740.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		0
11/23/2015 12:00AM	M E S A V E R D E/			9,754.0	9,755.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		0

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD top (usft)	MD base (usft)	Shot density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr type /Stage No	Carr size (in)	Phasing (°)	Charge desc. /Charge manufacturer	Charge weight (gram)	Reason	Misrun	How Guns Conveyed
11/23/2015 12:00AM	M E S A V E RDE/			9,797.0	9,798.0	3.00		0.410	EXP/1	3.125	120.00		19.00	PRODUCTION		0

3 Plots

3.1 Wellbore Schematic

